

# EMC Test Report

**Project Number: 3986695****Report Number: 3986695EMC02****Revision Level: 0****Client: Hi-P Electronics Pte. Ltd.****Equipment Under Test: iDEN Cellular Phone with Bluetooth****Model: H375iS****FCC ID: 2ACUZ375iS****Applicable Standards: FCC Part 15 Subpart C, § 15.247****ANSI C63.10: 2013****Report issued on: 15 July 2016****Test Result: Compliant**

Tested by:

  
\_\_\_\_\_  
Fabian Nica, Senior Technician

Reviewed by:

  
\_\_\_\_\_  
Jeremy Pickens, Senior EMC Engineer**Remarks:**

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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## 1 Summary of Test Results

| Test Description                 | Test Specification                        | Test Result |
|----------------------------------|-------------------------------------------|-------------|
| Occupied Bandwidth               | 15.247(a) (1)                             | Compliant   |
| Peak Power Output                | 15.247(a) (1)                             | Compliant   |
| Conducted Spurious Emissions     | 15.247(d)                                 | Compliant   |
| Radiated Spurious Emissions      | 15.247(d), 15.35(b), 15.205, 15.209       | Compliant   |
| Dwell time                       | 15.247(a) (1)(iii)                        | Compliant   |
| Number of Hopping Frequencies    | 15.247(a) (1)(iii)                        | Compliant   |
| Channel separation               | 15.247(a)(1)                              | Compliant   |
| AC Power Line Conducted Emission | FCC Part 15, Subpart B<br>ANSI C63.4:2014 | Compliant   |

### 1.1 Modifications Required for Compliance

None

## 2 General Information

### 2.1 Client Information

Name: Hi-P Electronics Pte. Ltd.  
Address: 12 ANG MO KIO STREET 64 #03-02, UE BIZHUB CENTRAL (BLK A)  
City, State, Zip, Country: SINGAPORE 569088

### 2.2 Test Laboratory

Name: SGS North America, Inc.  
Address: 620 Old Peachtree Road NW, Suite 100  
City, State, Zip, Country: Suwanee, GA 30024, USA

### 2.3 General Information of EUT

EUT: iDEN Cellular Phone with Bluetooth  
Model Number: H375iS  
Serial Number: 364KSL01GQ (Radiated Measurements)  
364KSL03V7 (Conducted Measurements)

Frequency Range: 902.525 to 927.475 MHz  
Number of channels: 500 (10 lots of 50 hopping channels)  
Modulation type: 8FSK  
Channel spacing: 50 kHz  
Antenna: Integral

Rated Voltage: 3.7 VDC Internal Battery

Sample Received Date: 24 June 2016  
Dates of testing: 28 June - 10 July 2016

### Operating Modes and Conditions

The EUT was configured in software to allow the user to control the EUT to run continuously exercising all modes of operation.

During testing, the hopping sequence was stopped in accordance with Section 5.1 of ANSI C63.10-2013 so that the low, mid and high channels could be tested independently.

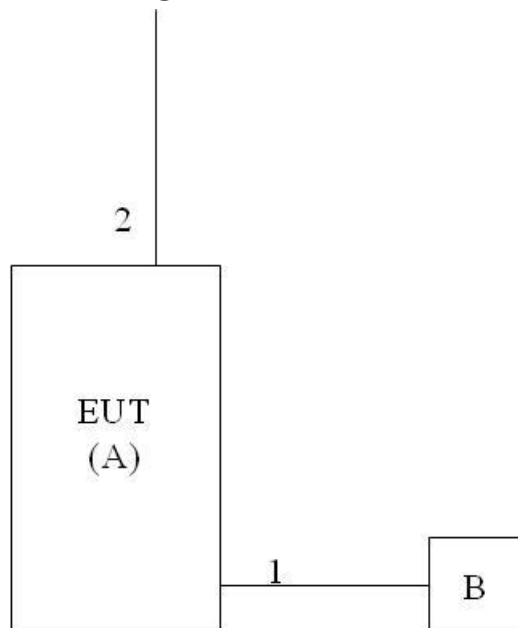
Modulations used: For fundamental and spurious measurements, the EUT was configured to operate continuously with 8FSK modulation enabled.

As specified in Section 5.10.5 of ANSI C63.10:2013:

- Software was designed to allow the EUT to operate
  - at 95.139 % duty cycle
  - at the worst-case duty cycle to allow measurements in instances where an average correction factor needs to be determined to calculate the average field strength from the measured peak field strength

- The software allowed configuration and operation on all available unlicensed wireless device channels.
- The software allowed configuration and operation using all available modulations and data rates
- The software allowed configuration and operation on all available power out levels
- Since this is a frequency hopping system, the software allowed the hopping sequence to be turned off

## 2.4 EUT Connection Block Diagram



## 2.5 System Configurations

| Device reference | Manufacturer    | Description                        | Model Number | Serial Number                                   |
|------------------|-----------------|------------------------------------|--------------|-------------------------------------------------|
| A                | Hi-P Technology | iDEN Cellular Phone with Bluetooth | H375iS       | 364KSL01GQ (Radiated)<br>364KSL03V7 (Conducted) |
| B                | Phihong         | Switching Power Supply             | PSB05R-050Q  | Not Labeled                                     |

## 2.6 Cable List

| Cable reference | Port Name | Start | End          | Cable Length (m) | Ferrite installed? | Shielded? |
|-----------------|-----------|-------|--------------|------------------|--------------------|-----------|
| 1               | USB       | EUT   | Power Supply | 1.2              | N                  | Y         |
| 2               | Headphone | EUT   | Ear Buds     | 1.2              | N                  | N         |

### 3 Occupied Bandwidth

#### 3.1 Test Result

| Test Description | Basic Standards | Test Result |
|------------------|-----------------|-------------|
| 20 dB bandwidth  | 15.247(a) (1)   | Pass        |

#### 3.2 Test Method

The procedures from ANSI C63.10 Clause 6.9.2 were used to determine the 20 dB bandwidth.

#### 3.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 23.0 °C

Relative Humidity: 53.8 %

#### 3.4 Test Equipment

Test Date: 29-Jun-2016

Tester: JOP

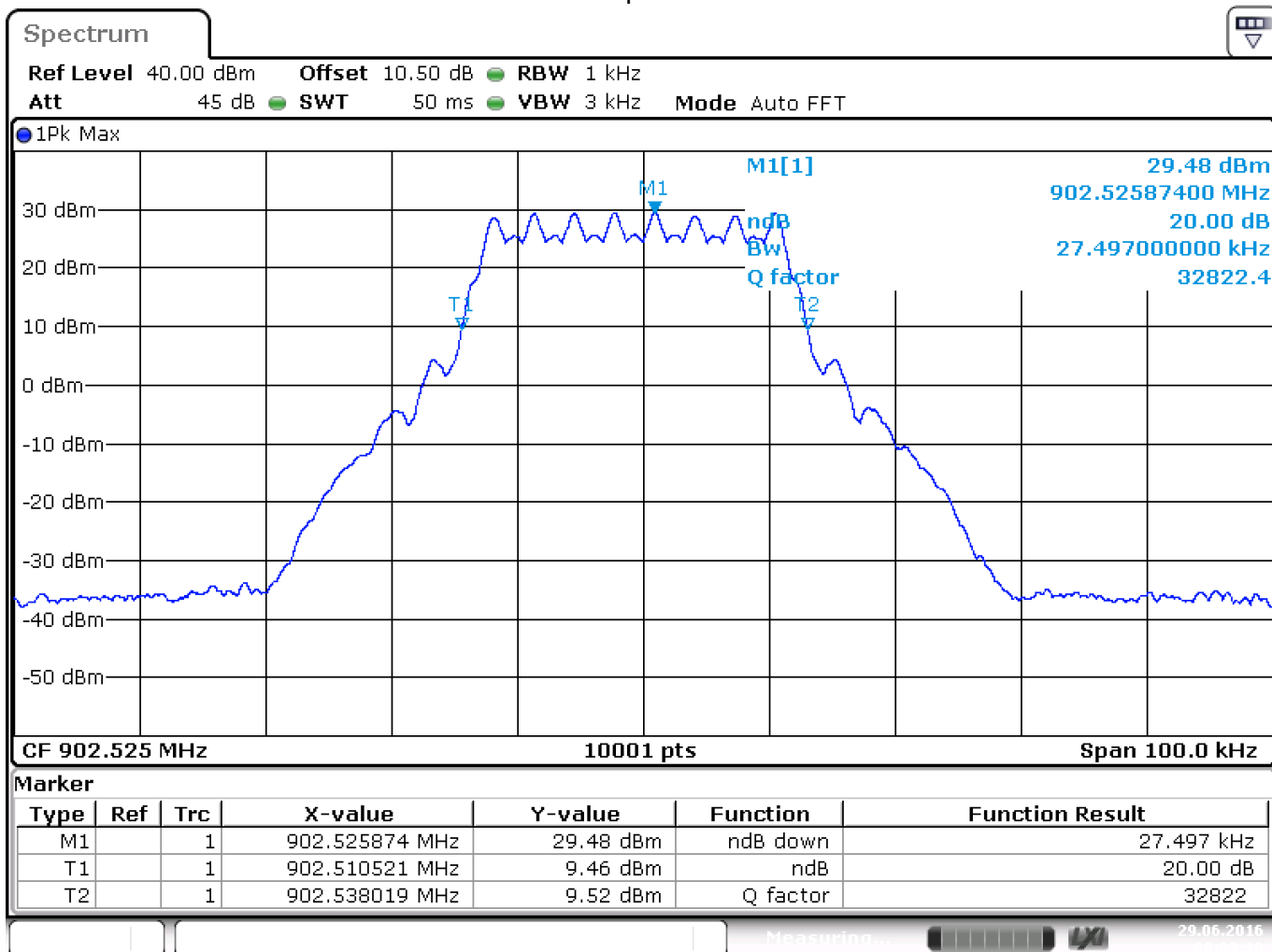
| Equipment       | Model | Manufacturer    | Asset Number | Cal Due Date |
|-----------------|-------|-----------------|--------------|--------------|
| SIGNAL ANALYZER | FSV30 | ROHDE & SCHWARZ | B085749      | 8-Oct-2017   |
| COAXIAL CABLE   | 1134  | GORE            | B094785      | 4-Aug-2016   |
| 10DB ATTENUATOR | 10DB  | UNKNOWN         | B095592      | 5-Aug-2016   |

Note: The equipment calibration period is 1 year except for the FSV30 which is on a 2-year cycle per manufacturer's recommendation.

#### 3.5 Test Data

| Frequency  | 20 dB bandwidth<br>kHz |
|------------|------------------------|
| 902.525MHz | 27.497                 |
| 915MHz     | 27.507                 |
| 927.475MHz | 27.487                 |

## Sample Plot



Date: 29.JUN.2016 09:03:10

## 4 Peak Output Power

### 4.1 Test Result

| Test Description  | Test Specification | Test Result |
|-------------------|--------------------|-------------|
| Peak Output Power | 15.247(a)(1)       | Compliant   |

### 4.2 Test Method

Measurements were recorded using the test methods defined in ANS C63.10, Clause 7.8.5.

#### Limit

For frequency hopping systems operating in the 902-928 MHz band employing at least 50 hopping channels: 1 watt.

### 4.3 Test Site

SGS EMC Laboratory, Suwanee, GA

#### Environmental Conditions

Temperature: 23.0 °C

Relative Humidity: 53.8 %

### 4.4 Test Equipment

Test Date: 29-Jun-2016

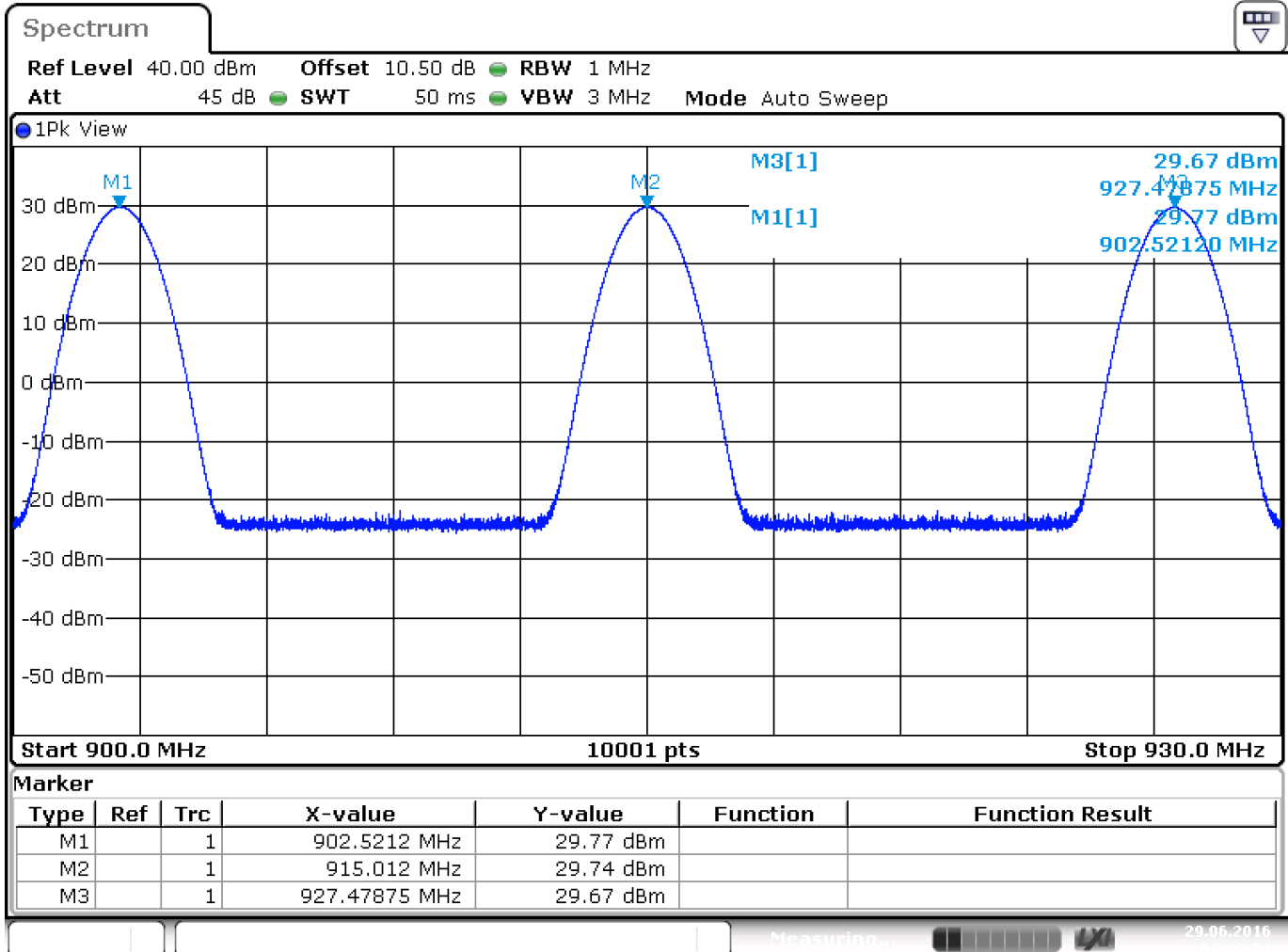
Tester: JOP

| Equipment       | Model | Manufacturer    | Asset Number | Cal Due Date |
|-----------------|-------|-----------------|--------------|--------------|
| SIGNAL ANALYZER | FSV30 | ROHDE & SCHWARZ | B085749      | 8-Oct-2017   |
| COAXIAL CABLE   | 1134  | GORE            | B094785      | 4-Aug-2016   |
| 10DB ATTENUATOR | 10DB  | UNKNOWN         | B095592      | 5-Aug-2016   |

Note: The equipment calibration period is 1 year except for the FSV30 which is on a 2-year cycle per manufacturer's recommendation.

## 4.5 Test Data

| Frequency   | Peak Output Power (dBm) | Peak Output Power (mW) |
|-------------|-------------------------|------------------------|
| 902.525 MHz | 29.77                   | 948.4185               |
| 915 MHz     | 29.74                   | 941.8896               |
| 927.475 MHz | 29.67                   | 926.8298               |



Date: 29.JUN.2016 09:12:54

## 5 Conducted Spurious Emissions

### 5.1 Test Result

| Test Description             | Test Specification | Test Result |
|------------------------------|--------------------|-------------|
| Conducted Spurious Emissions | 15.247(d)          | Compliant   |

### 5.2 Test Method

Measurements were recorded using the test methods defined in ANS C63.10, Clause 7.8.8.

The limit is 20 dB below the measured peak power.

### 5.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 22.9 °C

Relative Humidity: 51.9 %

### 5.4 Test Equipment

Test Date: 29-Jun-2016

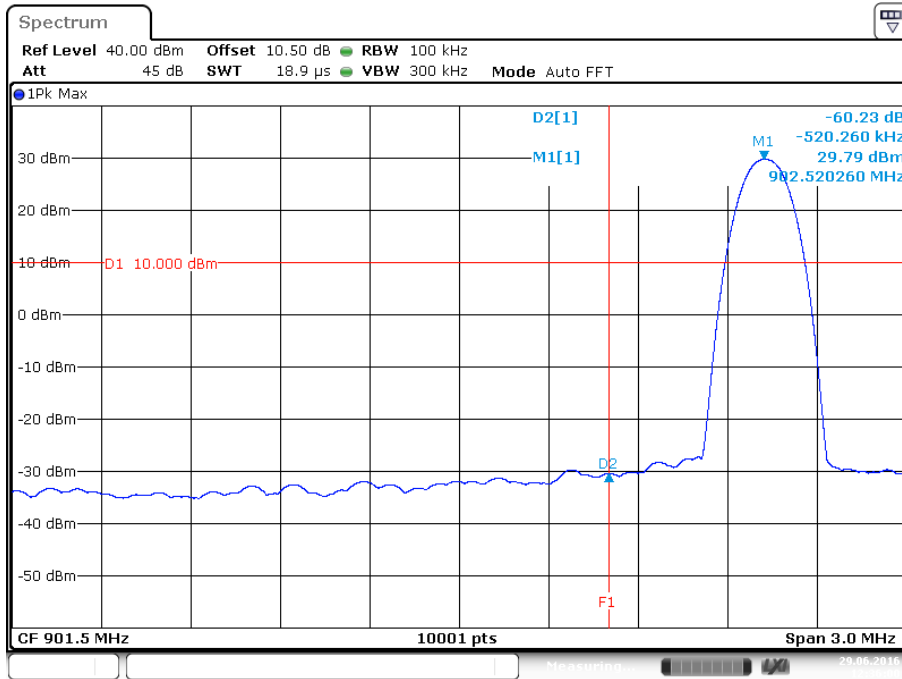
Tester: JOP

| Equipment       | Model | Manufacturer    | Asset Number | Cal Due Date |
|-----------------|-------|-----------------|--------------|--------------|
| SIGNAL ANALYZER | FSV30 | ROHDE & SCHWARZ | B085749      | 8-Oct-2017   |
| COAXIAL CABLE   | 1134  | GORE            | B094785      | 4-Aug-2016   |
| 10DB ATTENUATOR | 10DB  | UNKNOWN         | B095592      | 5-Aug-2016   |

Note: The equipment calibration period is 1 year except for the FSV30 which is on a 2-year cycle per manufacturer's recommendation.

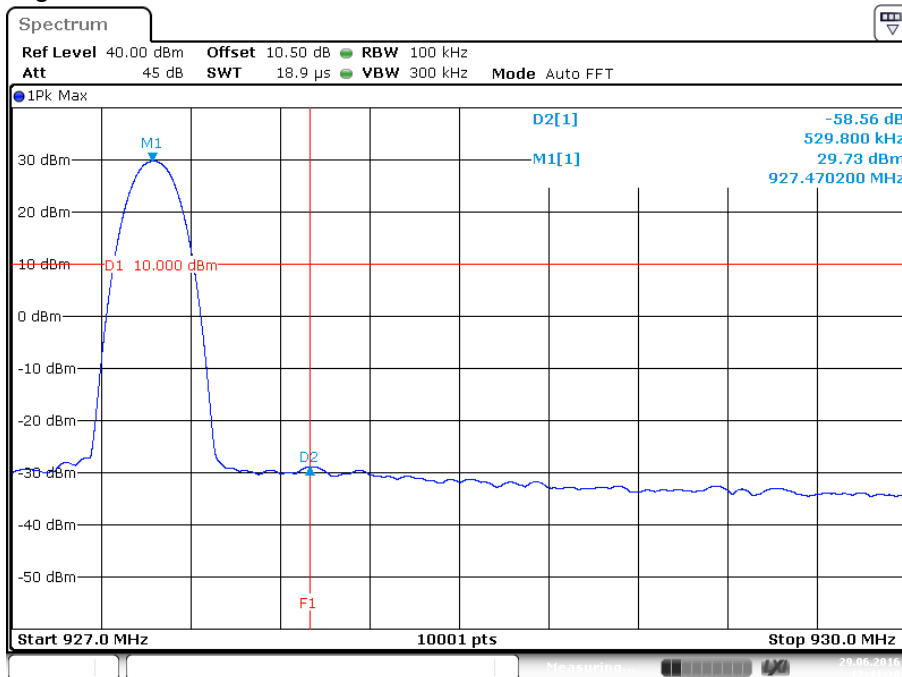
## 5.5 Test Data (Band-Edge)

### Low Channel – 902.525



Date: 29.JUN.2016 12:36:00

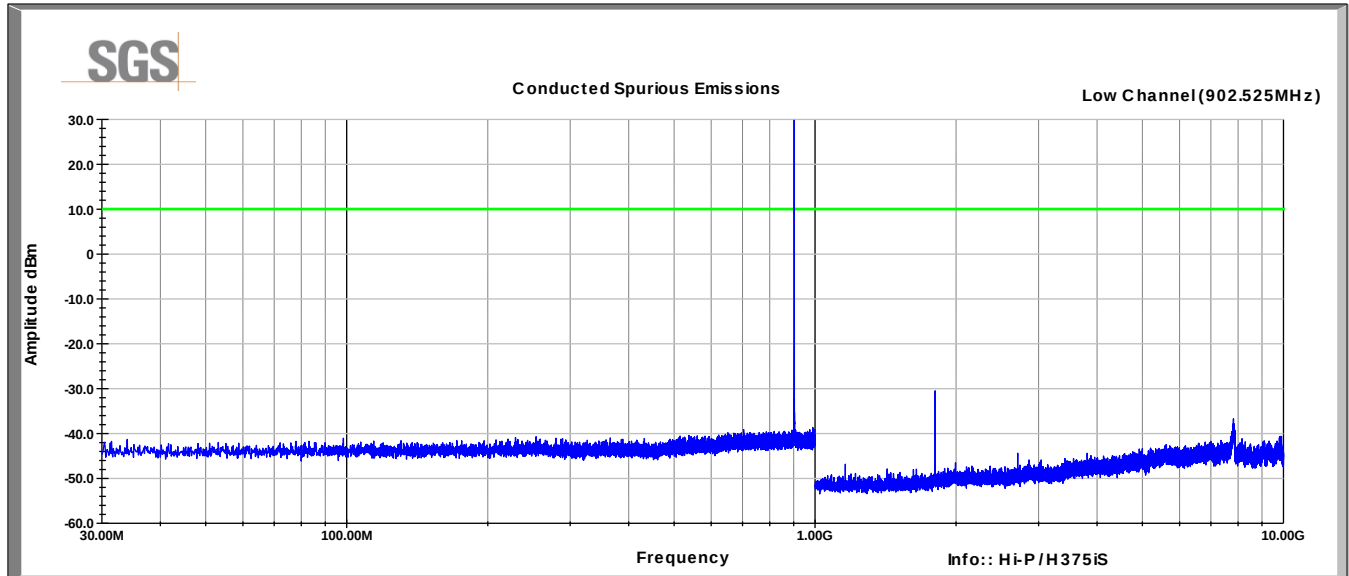
### High Channel – 927.475



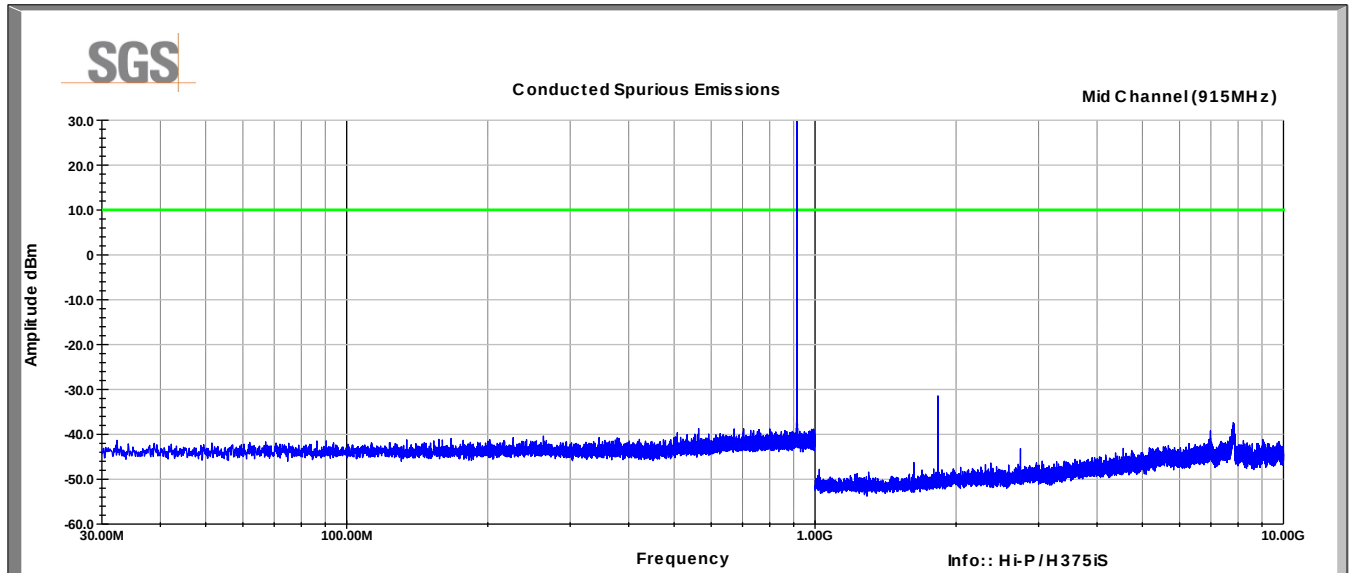
Date: 29.JUN.2016 12:41:20

## 5.6 Test Data (Spurious Emissions)

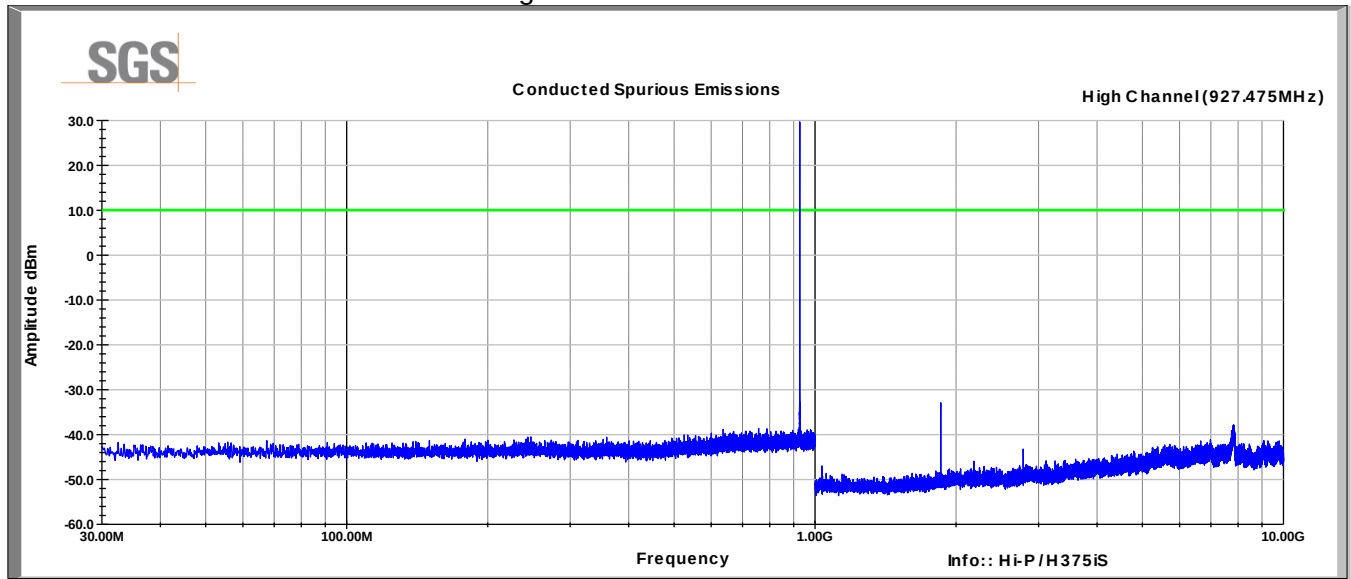
Low Channel - 902.525 MHz



Mid Channel - 915 MHz



# High Channel - 927.475 MHz



## 6 Field Strength of Spurious Radiation

### 6.1 Test Result

| Test Description                     | Test Specification                  | Test Result |
|--------------------------------------|-------------------------------------|-------------|
| Field strength of spurious radiation | 15.247(d), 15.35(b), 15.205, 15.209 | Compliant   |

### 6.2 Test Method

Radiated spurious emissions measurements were recorded with the device configured to transmit at the lowest, middle, and highest channels. The frequency range investigated was up through the 10<sup>th</sup> harmonic of the fundamental transmit frequency. The methods defined in ANSI C63.10: 2013 were used.

For measurements below 1GHz, the device was manipulated through three orthogonal axes. Above 1GHz, the alternative method in Clause 6.6.5 was used.

Test distance:

30 MHz to 1 GHz - The EUT to measurement antenna distance is 3 meters

1 to 18 GHz - The EUT to measurement antenna distance is 3 meters

18 to 40 GHz - The EUT to measurement antenna distance is 1 meter

| Frequency      | Limits <sup>(1)</sup> |                     | Peak Limits<br>dBuV/m |
|----------------|-----------------------|---------------------|-----------------------|
|                | Microvolts/m          | dBuV/m              |                       |
| 30 - 88 MHz    | 100                   | 40 <sup>(2)</sup>   | --                    |
| 88 - 216 MHz   | 150                   | 43.5 <sup>(2)</sup> | --                    |
| 216 - 960 MHz  | 200                   | 46 <sup>(2)</sup>   | --                    |
| 960 - 1000 MHz | 500                   | 54 <sup>(2)</sup>   | --                    |
| 1 - 40 GHz     | 500                   | 54 <sup>(3)</sup>   | 74                    |

(1) These limits are applicable to emissions within the restricted bands of operation defined in FCC §15.205.

(2) Quasi-peak limit

(3) Average limit

### 6.3 Test Site

10m Absorber Lined Shielded Enclosure (ALSE), Suwanee, GA (Measurements < 1GHz)

3m Absorber Lined Shielded Enclosure (ALSE), Suwanee, GA (Measurements > 1GHz)

#### Environmental Conditions

Temperature: 23.2 °C

Relative Humidity: 51.6 %

### 6.4 Test Equipment

Test End Date: 10-Jul-2016

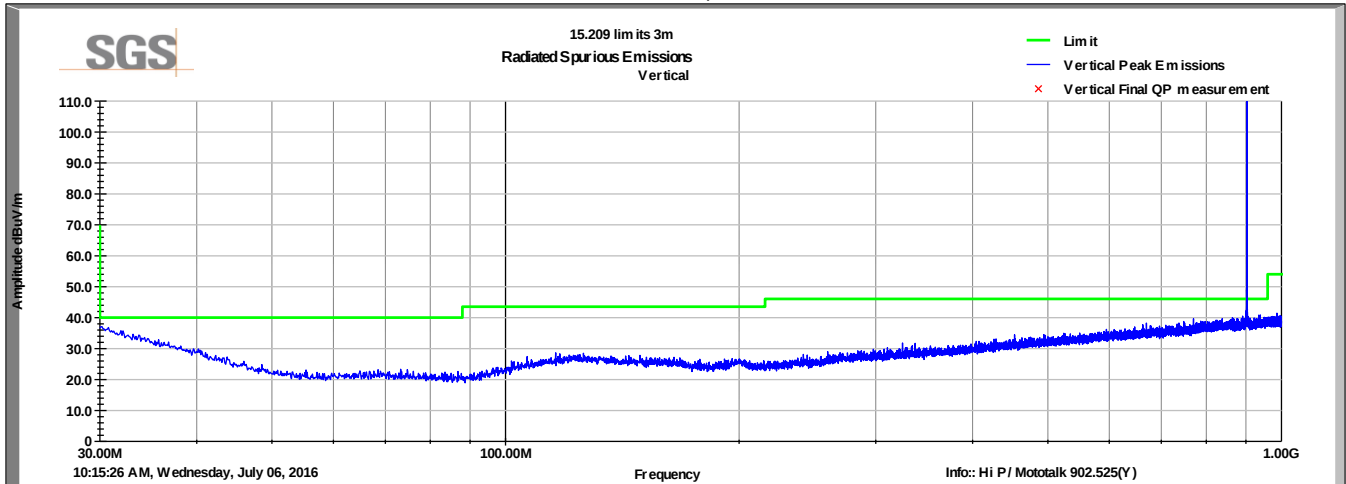
Tester: JOP

| Equipment                         | Model             | Manufacturer    | Asset Number | Cal Due Date |
|-----------------------------------|-------------------|-----------------|--------------|--------------|
| EMI TEST RECEIVER                 | ESU40             | ROHDE & SCHWARZ | B079629      | 4-Aug-2016   |
| ANTENNA, BILOG                    | JB6               | SUNOL           | B079690      | 21-Oct-2016  |
| DRG HORN (MEDIUM)                 | 3117              | ETS-LINDGREN    | B079699      | 26-Apr-2017  |
| PREAMPLIFIER                      | TS-PR18           | ROHDE & SCHWARZ | B094463      | 16-Feb-2017  |
| RF CABLE                          | NMS-290-236.2-NMS | FLORIDA RF LABS | B095020      | 4-Aug-2016   |
| RF CABLE                          | NFS-290-78.7-NFS  | FLORIDA RF LABS | B095019      | 4-Aug-2016   |
| RF CABLE - 7500MM (10KHZ - 18GHZ) | SF106             | HUBER&SUHNER    | B079713      | 3-Aug-2016   |
| RF CABLE - 7000MM (10KHZ - 18GHZ) | SF106             | HUBER&SUHNER    | B079716      | 3-Aug-2016   |
| COAXIAL CABLE                     | SUCOFLEX 100      | HUBER&SUHNER    | B108523      | 27-Oct-2016  |
| RF CABLE                          | SF106             | HUBER&SUHNER    | B085892      | 3-Aug-2016   |
| COAXIAL CABLE                     | 1134              | GORE            | B094785      | 4-Aug-2016   |

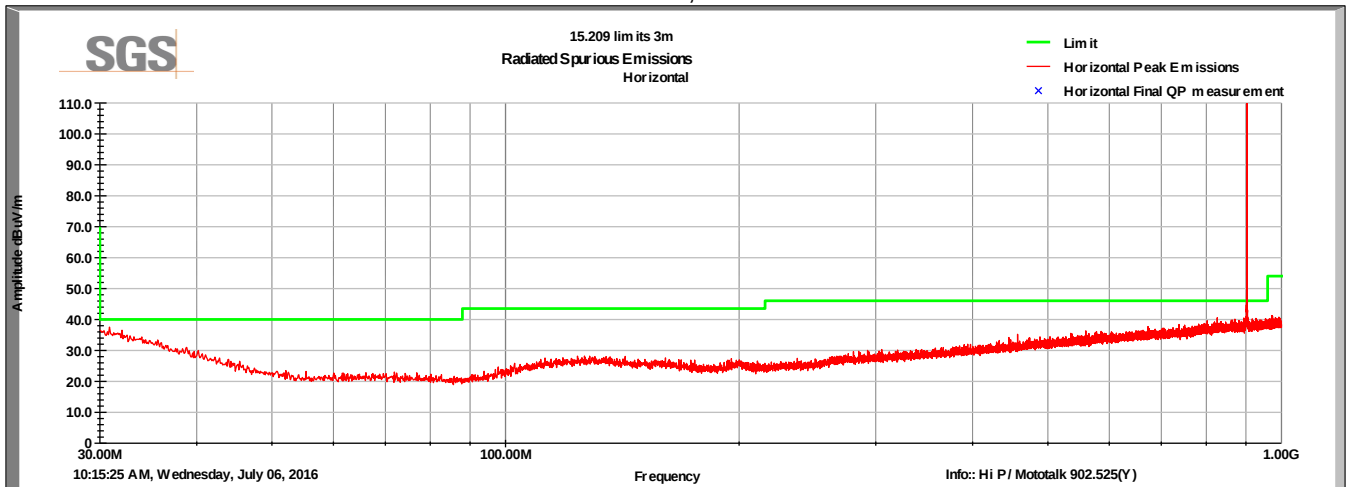
Note: The equipment calibration period is 1 year.

## 6.5 Test Data

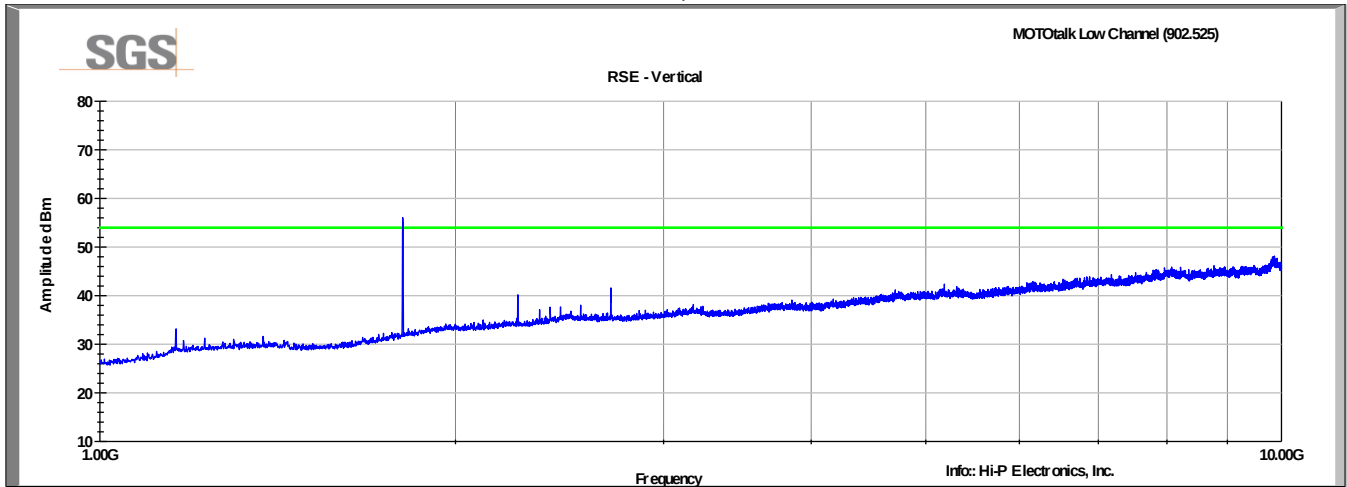
### MOTotalk Low Channel, 902.525 MHz 30-1000MHz, Vertical



### MOTotalk Low Channel, 902.525 MHz 30-1000MHz, Horizontal

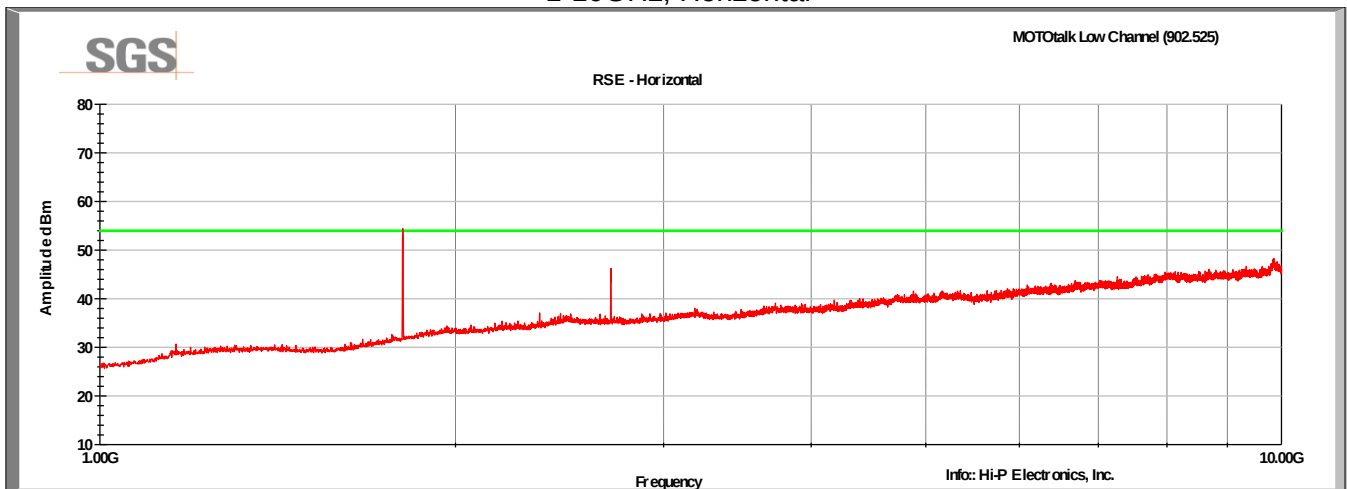


MOTotalk Low Channel, 902.525 MHz  
1-10GHz, Vertical



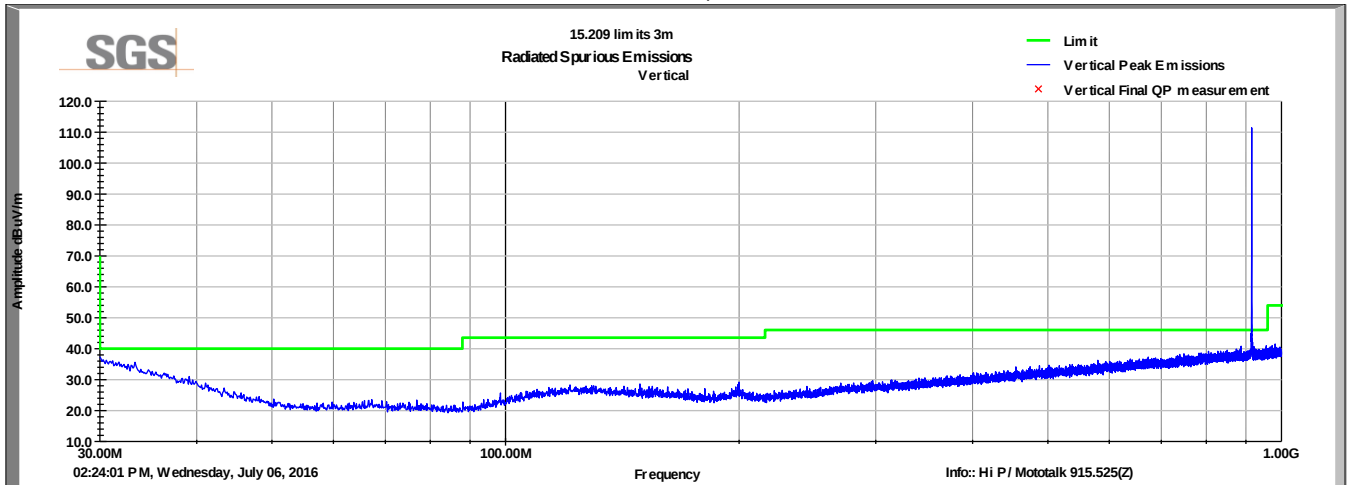
The emission at 1805.05 does not fall within a restricted band is therefore not required to meet the 15.209 limits.

MOTotalk Low Channel, 902.525 MHz  
1-10GHz, Horizontal

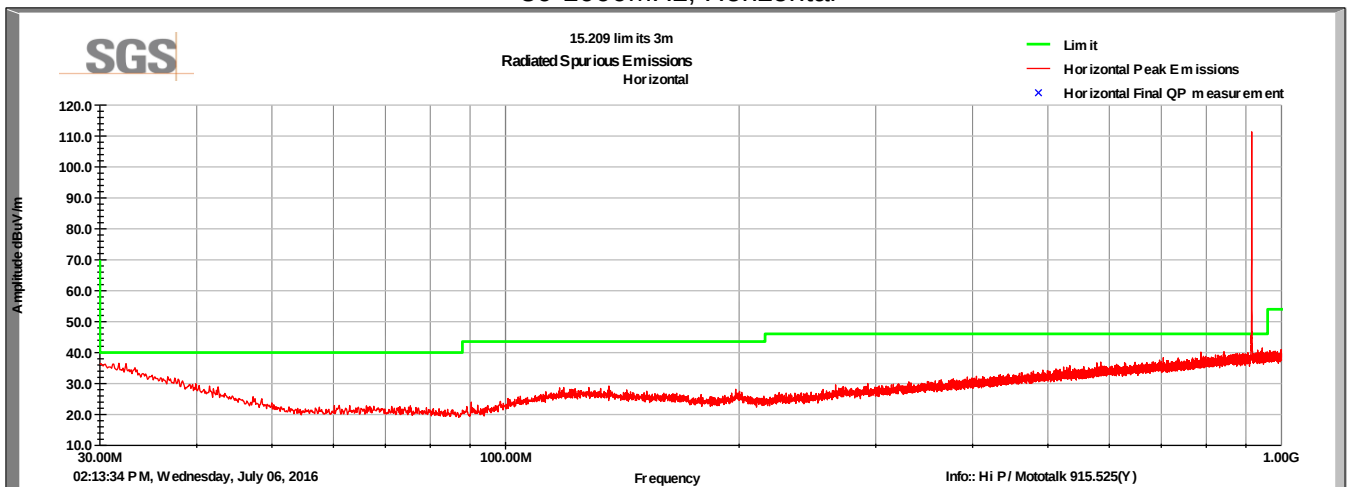


The emission at 1805.05 does not fall within a restricted band is therefore not required to meet the 15.209 limits.

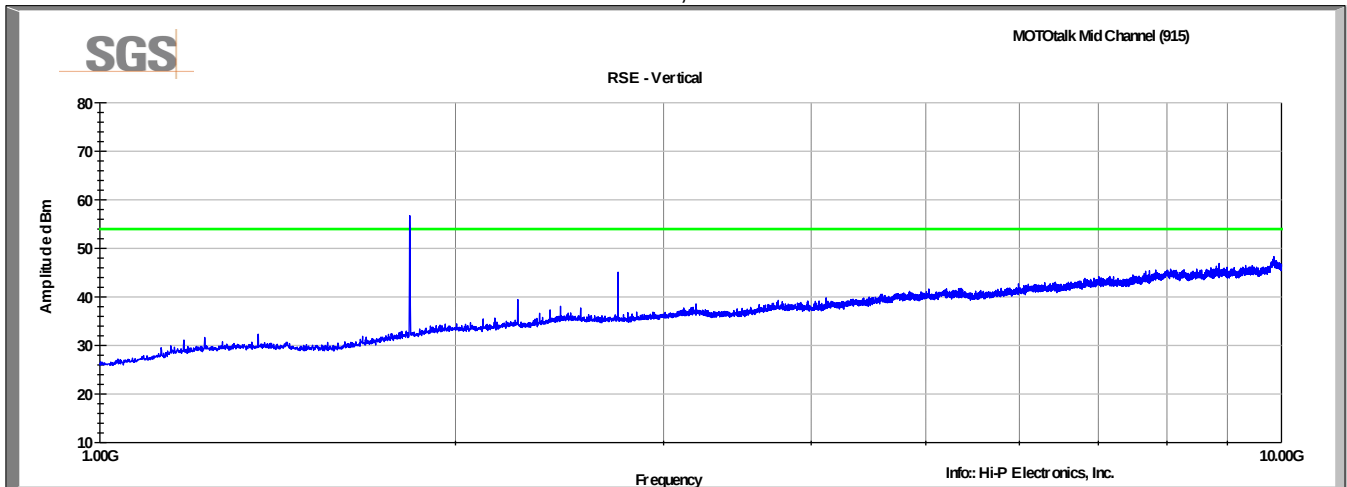
### MOTotalk Mid Channel, 915 MHz 30-1000MHz, Vertical



### MOTotalk Mid Channel, 915 MHz 30-1000MHz, Horizontal

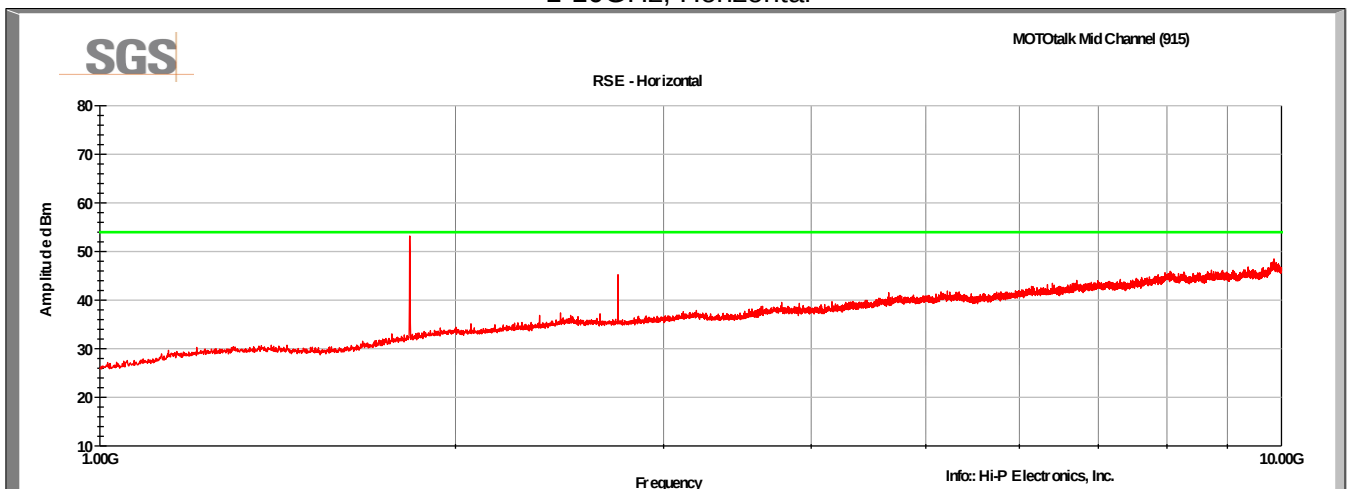


MOTotalk Mid Channel, 915 MHz  
1-10GHz, Vertical



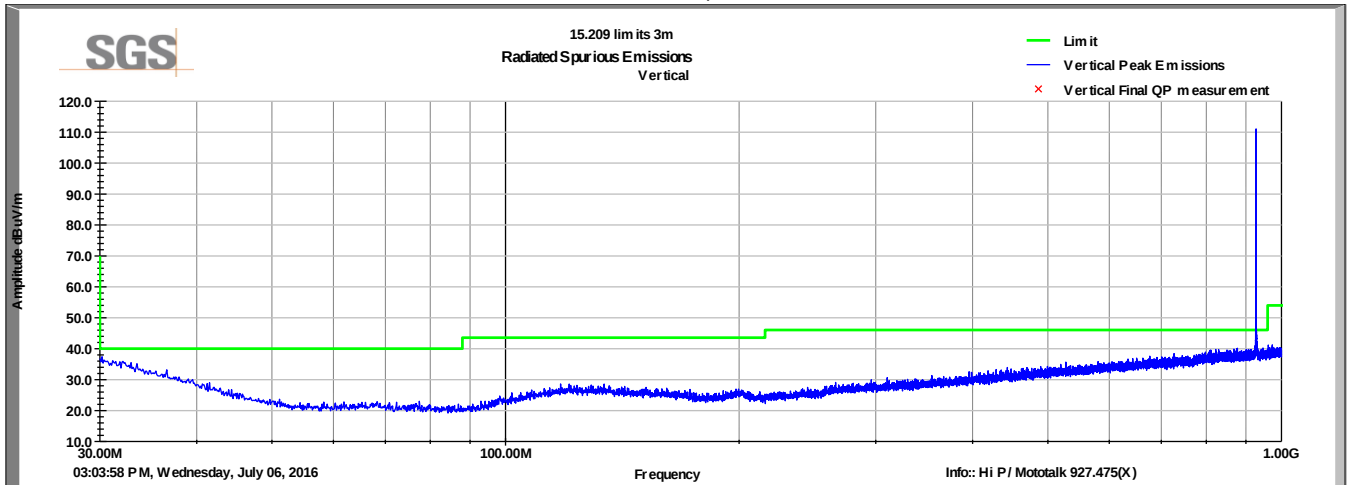
The emission at 1830 does not fall within a restricted band is therefore not required to meet the 15.209 limits.

MOTotalk Mid Channel, 915 MHz  
1-10GHz, Horizontal

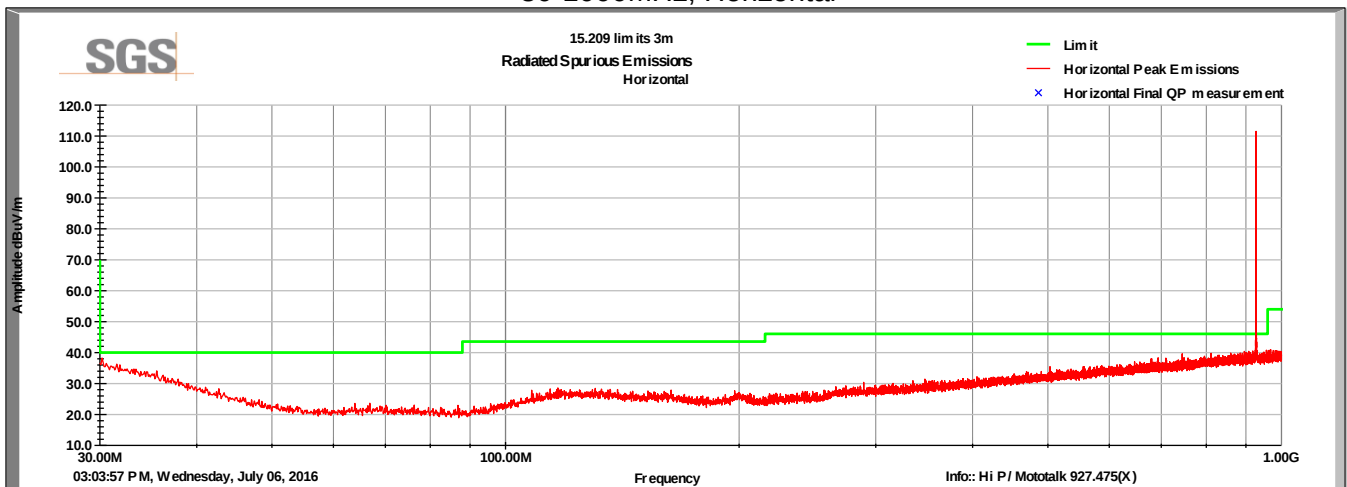


The emission at 1830 does not fall within a restricted band is therefore not required to meet the 15.209 limits.

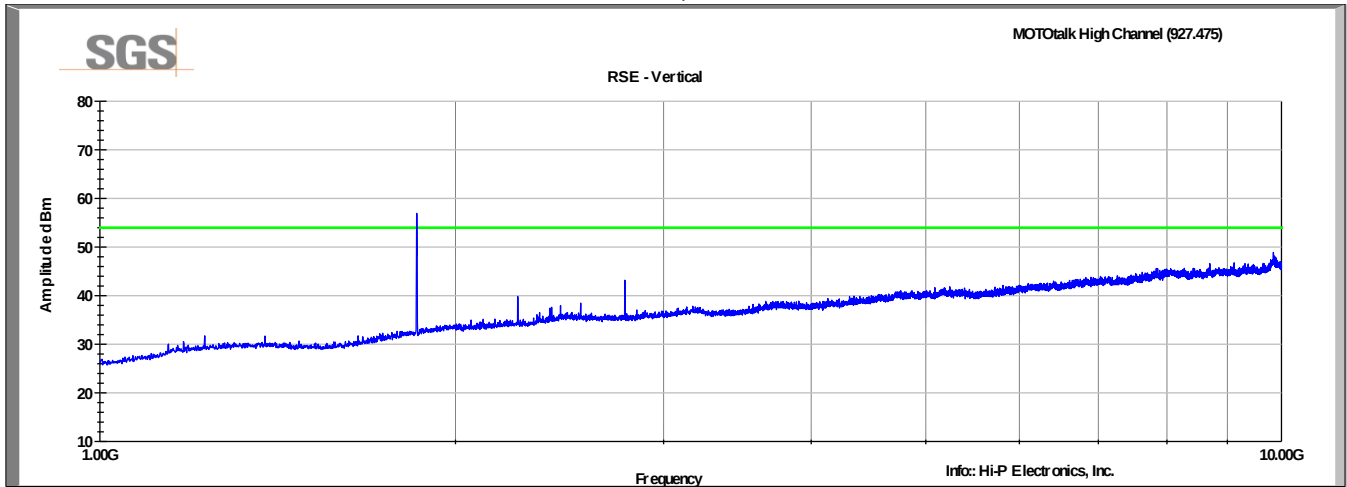
### MOTotalk High Channel, 927.475 MHz 30-1000MHz, Vertical



### MOTotalk High Channel, 927.475 MHz 30-1000MHz, Horizontal

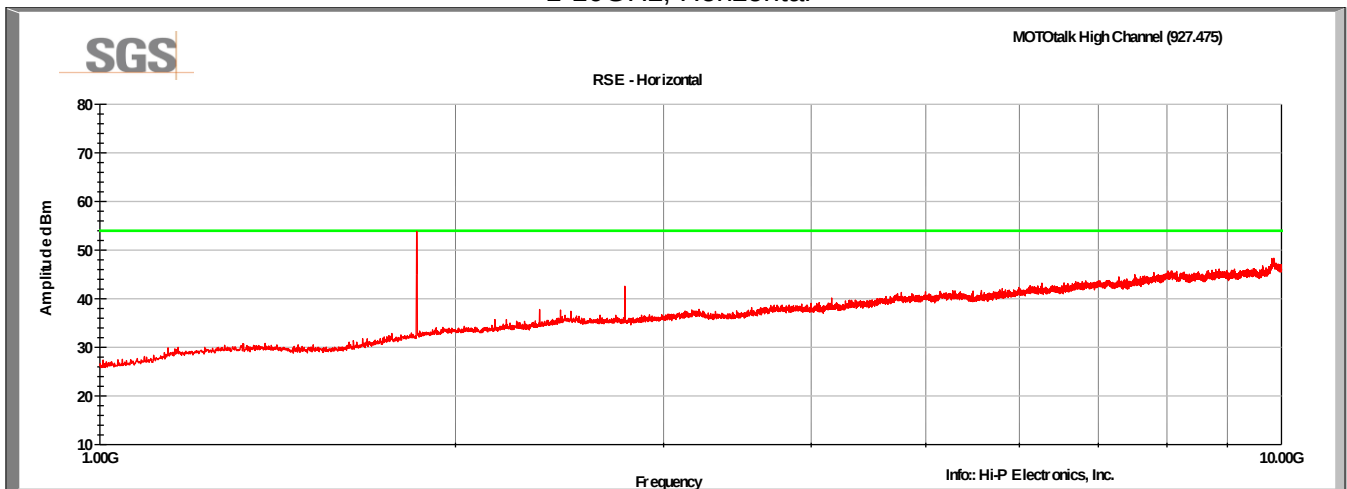


MOTotalk High Channel, 927.475 MHz  
1-10GHz, Vertical



The emission at 1854.95 does not fall within a restricted band is therefore not required to meet the 15.209 limits.

MOTotalk High Channel, 927.475 MHz  
1-10GHz, Horizontal



The emission at 1854.95 does not fall within a restricted band is therefore not required to meet the 15.209 limits.

## 7 Pseudo-Random Hop Sequence

### 7.1 Test Result

| Test Description           | Test Specification | Test Result              |
|----------------------------|--------------------|--------------------------|
| Pseudo-Random Hop Sequence | 15.247(d)          | Compliant <sup>(1)</sup> |

Note (1): The theory of operation states that the device is MOTotalk and operates using a pseudo-random hopping technique.

### 7.2 Test Method

Compliance is demonstrated by Manufacturer's declaration or is stated in the Theory of Operation.

#### Requirement

The hopset shall be such that the near-term distribution of frequencies appears random, with sequential hops randomly distributed in both direction and magnitude of change in the hopset, while the long-term distribution appears evenly distributed.

## 8 Channel Separation

### 8.1 Test Result

| Test Description           | Test Specification | Test Result |
|----------------------------|--------------------|-------------|
| Number of Hopping Channels | 15.247(a)(1)       | Compliant   |

### 8.2 Test Method

Measurements were recorded using the test methods defined in ANSI C63.10, Clause 7.8.2.

#### Requirement

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the -20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the band 2400-2483.5 MHz may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the -20 dB bandwidth of the hopping channel, whichever is greater, provided that the systems operate with an output power no greater than 0.125 W.

### 8.3 Test Site

SGS EMC Laboratory, Suwanee, GA

#### Environmental Conditions

Temperature: 23.1 °C  
Relative Humidity: 53.5 %

### 8.4 Test Equipment

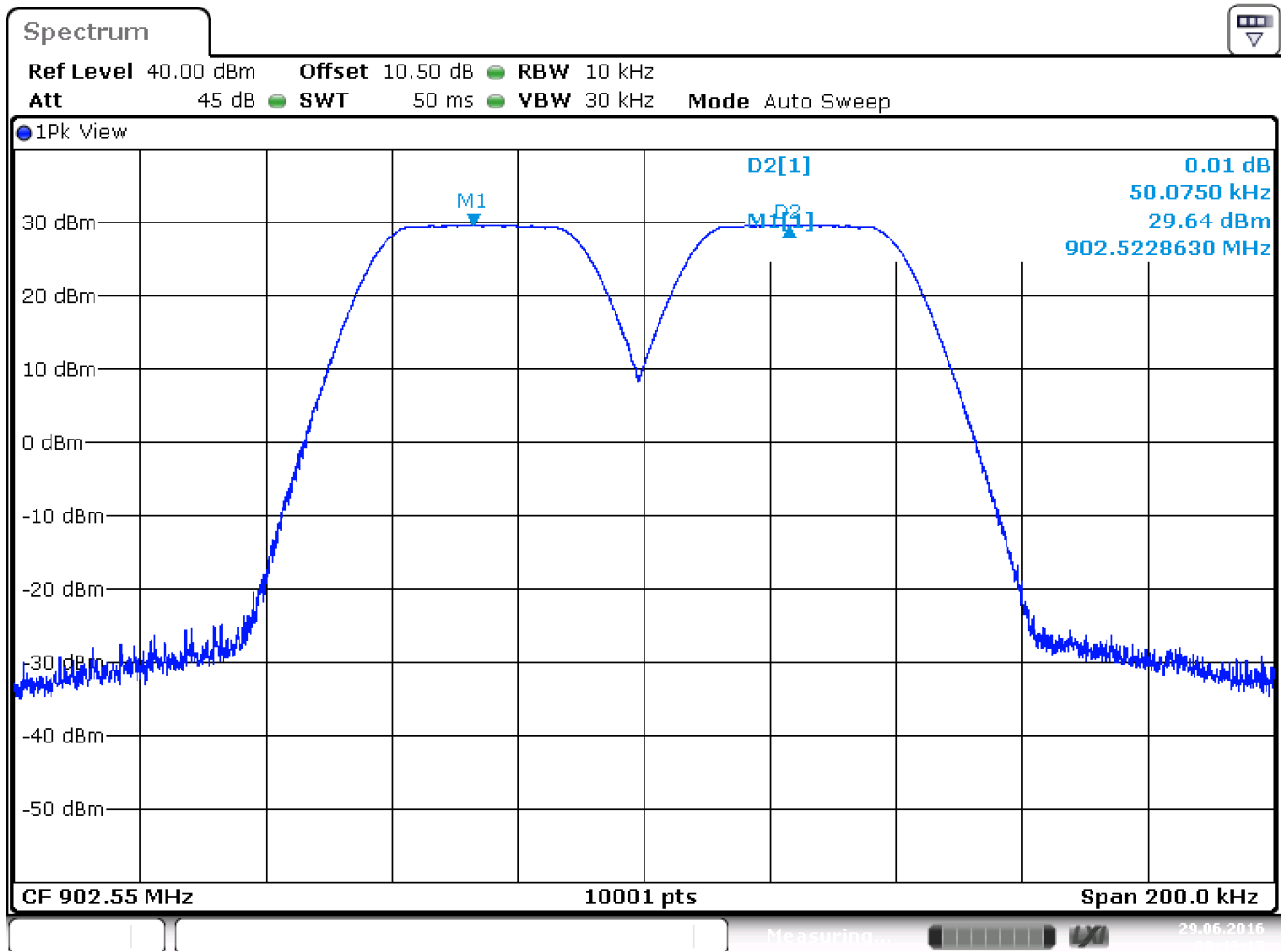
Test Date: 29-Jun-2016

Tester: JOP

| Equipment       | Model | Manufacturer    | Asset Number | Cal Due Date |
|-----------------|-------|-----------------|--------------|--------------|
| SIGNAL ANALYZER | FSV30 | ROHDE & SCHWARZ | B085749      | 8-Oct-2017   |
| COAXIAL CABLE   | 1134  | GORE            | B094785      | 4-Aug-2016   |
| 10DB ATTENUATOR | 10DB  | UNKNOWN         | B095592      | 5-Aug-2016   |

Note: The equipment calibration period is 1 year except for the FSV30 which is on a 2-year cycle per manufacturer's recommendation.

## 8.5 Test Data



Date: 29.JUN.2016 09:43:15

## 9 Number of Hopping Channels

### 9.1 Test Result

| Test Description           | Test Specification | Test Result |
|----------------------------|--------------------|-------------|
| Number of Hopping Channels | 15.247(a)(1)(i)    | Compliant   |

### 9.2 Test Method

Measurements were recorded using the methods defined in ANSI C63.10, Clause 7.8.3.

#### Requirement

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies

### 9.3 Test Site

SGS EMC Laboratory, Suwanee, GA

#### Environmental Conditions

Temperature: 23.1 °C

Relative Humidity: 53.5 %

### 9.4 Test Equipment

Test Date: 29-Jun-2016

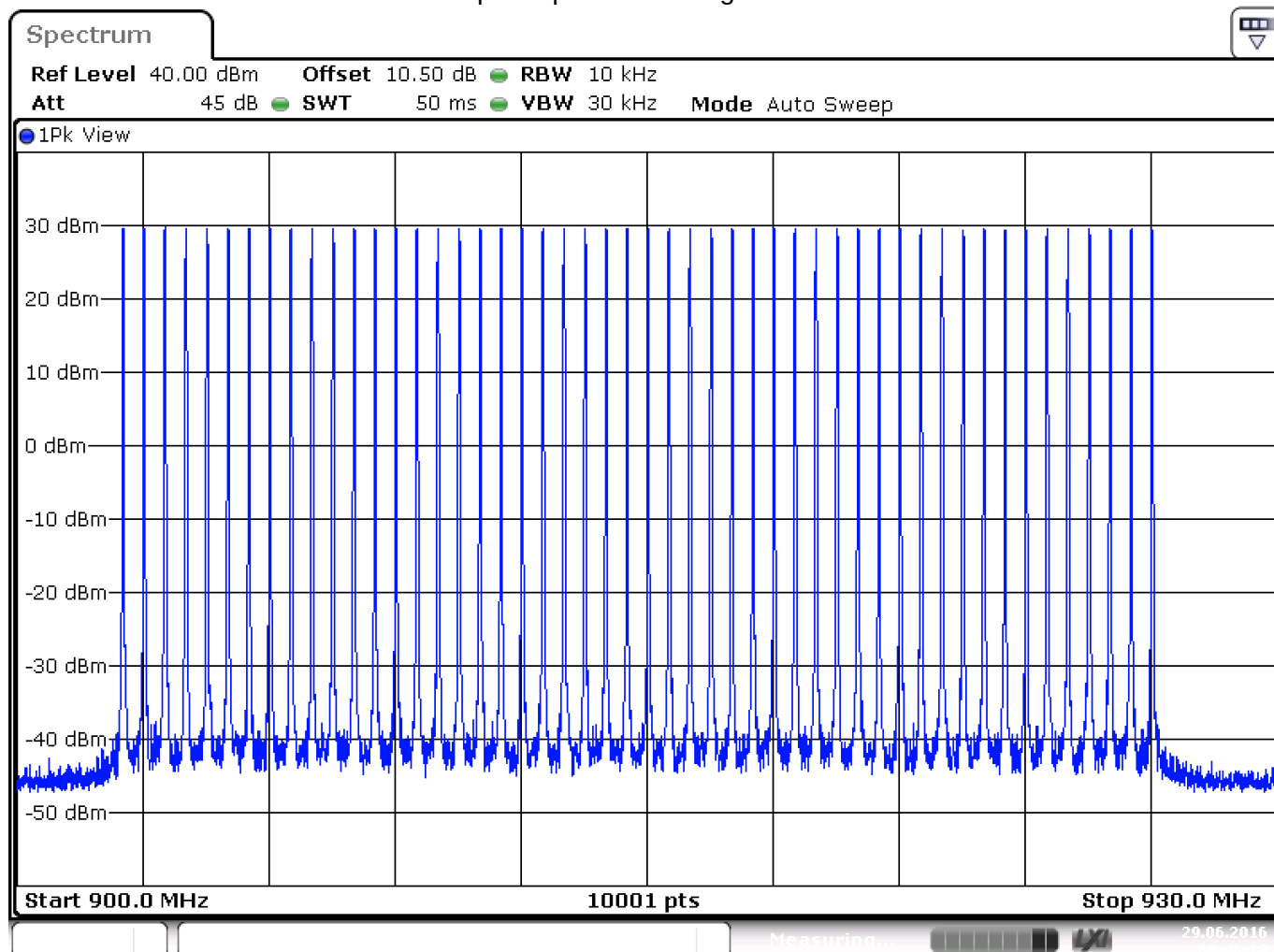
Tester: JOP

| Equipment       | Model | Manufacturer    | Asset Number | Cal Due Date |
|-----------------|-------|-----------------|--------------|--------------|
| SIGNAL ANALYZER | FSV30 | ROHDE & SCHWARZ | B085749      | 8-Oct-2017   |
| COAXIAL CABLE   | 1134  | GORE            | B094785      | 4-Aug-2016   |
| 10DB ATTENUATOR | 10DB  | UNKNOWN         | B095592      | 5-Aug-2016   |

Note: The equipment calibration period is 1 year except for the FSV30 which is on a 2-year cycle per manufacturer's recommendation.

## 9.5 Test Data

Theory of operation states that the radio splits the 500 carriers up into 10 hopsets of 50 carriers each  
Sample hopset 1 showing 50 carriers



Date: 29.JUN.2016 09:48:10

## 10 Dwell Time

### 10.1 Test Result

| Test Description | Test Specification | Test Result |
|------------------|--------------------|-------------|
| Dwell Time       | 15.247(a)(1)(i)    | Compliant   |

### 10.2 Test Method

Measurements were recorded using the methods defined in ANSI C63.10, Clause 7.8.4.

#### Requirement

If the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

For this device employing 50 hopping channels, the occupancy period is 20 seconds

### 10.3 Test Site

SGS EMC Laboratory, Suwanee, GA

#### Environmental Conditions

Temperature: 23.1 °C

Relative Humidity: 53.5 %

### 10.4 Test Equipment

Test Date: 29-Jun-2016

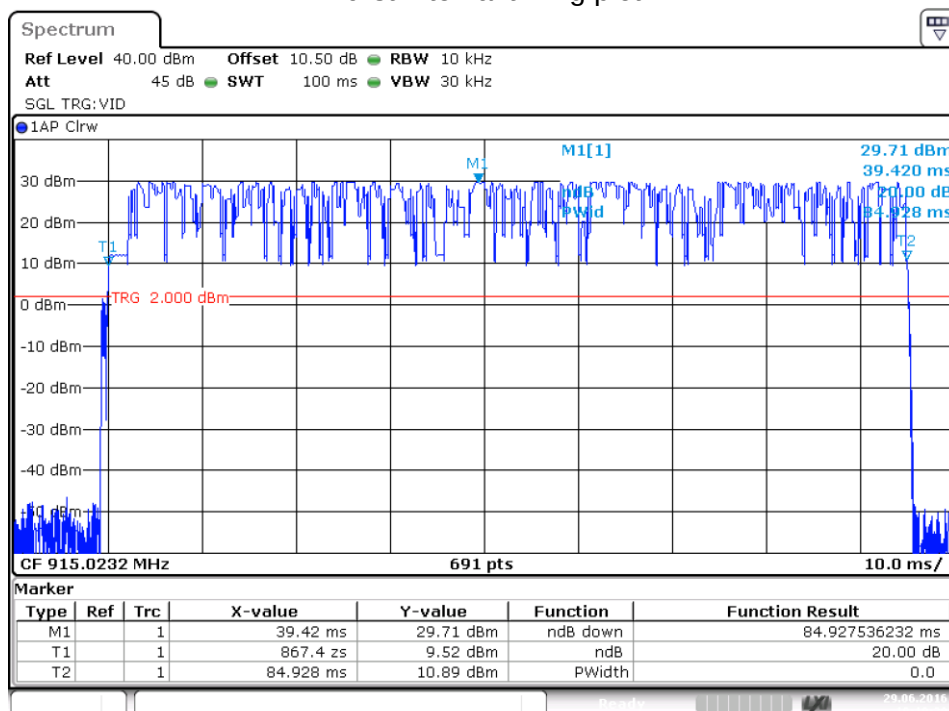
Tester: JOP

| Equipment       | Model | Manufacturer    | Asset Number | Cal Due Date |
|-----------------|-------|-----------------|--------------|--------------|
| SIGNAL ANALYZER | FSV30 | ROHDE & SCHWARZ | B085749      | 8-Oct-2017   |
| COAXIAL CABLE   | 1134  | GORE            | B094785      | 4-Aug-2016   |
| 10DB ATTENUATOR | 10DB  | UNKNOWN         | B095592      | 5-Aug-2016   |

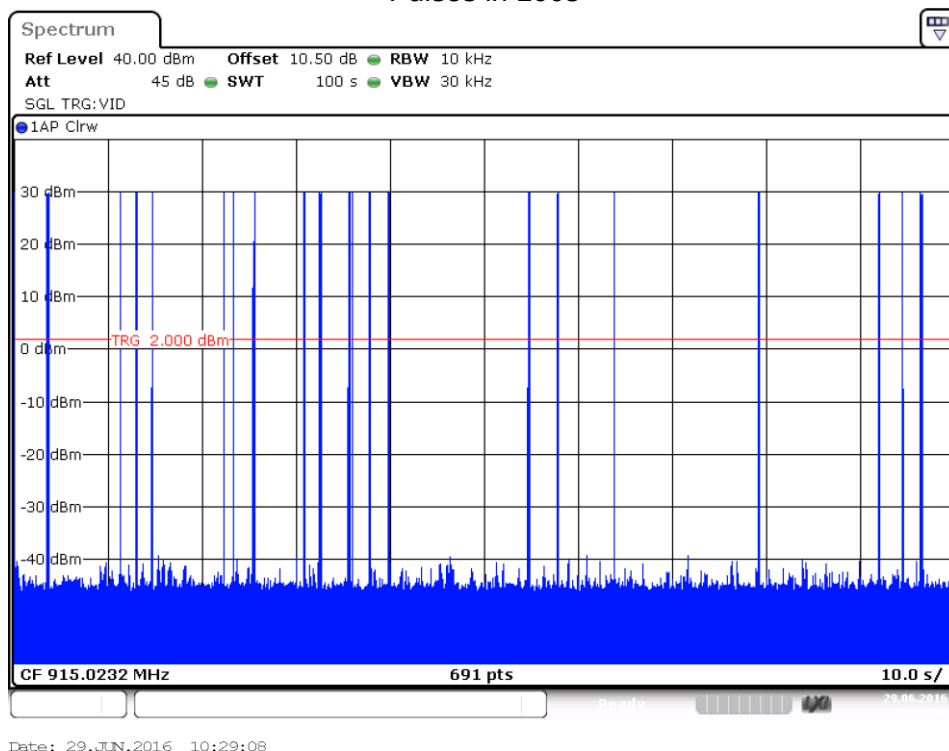
Note: The equipment calibration period is 1 year except for the FSV30 which is on a 2-year cycle per manufacturer's recommendation.

## 10.5 Test Data

Burst Interval timing plot



Pulses in 100s



20 pulses over 100s = 4 average per 20s  
 $0.085s * (20/5) \text{ pulses} = 0.34s$

## 11 AC Power Line Conducted Emissions

### 11.1 Test Result

| Test Description             | Basic Standards                           | Test Result |
|------------------------------|-------------------------------------------|-------------|
| Conducted Emissions, Class B | FCC Part 15, Subpart B<br>ANSI C63.4:2014 | Compliant   |

### 11.2 Test Method

With the receivers resolution bandwidth was set to 9 kHz exploratory scans were performed over the measuring frequency range (0.15MHz to 30MHz) using a max hold mode incorporating a Peak detector and Average detector and using the TILE! software. The final test data was measured using a Quasi-Peak detector and Average detector and compared against the limits indicated in the table below.

| Frequency Range | Class A Limits (dBuV) | Class B Limits (dBuV)       |
|-----------------|-----------------------|-----------------------------|
| 0.15 to 0.5 MHz | Avg 66<br>QP 79       | Avg 56 to 46<br>QP 66 to 56 |
| 0.5 to 5 MHz    | Avg 60<br>QP 73       | Avg 46<br>Pk 56             |
| 5 to 30 MHz     | Avg 60<br>QP 73       | Avg 50<br>Pk 60             |

### 11.3 Test Site

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 23.4°C

Relative Humidity: 51.6%

### 11.4 Test Equipment

Test End Date: 1-Jul-2016

Tester: JOP

| Equipment          | Model         | Manufacturer    | Asset Number | Cal Due Date |
|--------------------|---------------|-----------------|--------------|--------------|
| EMI TEST RECEIVER  | ESU8          | ROHDE & SCHWARZ | B085759      | 9-Jul-2016   |
| COAXIAL CABLE      | CBL-25FT-NMNM | MINI-CIRCUIT    | B094941      | 4-Aug-2016   |
| TWO-LINE V-NETWORK | NNB 51        | TESEQ           | B087573      | 12-Nov-2016  |

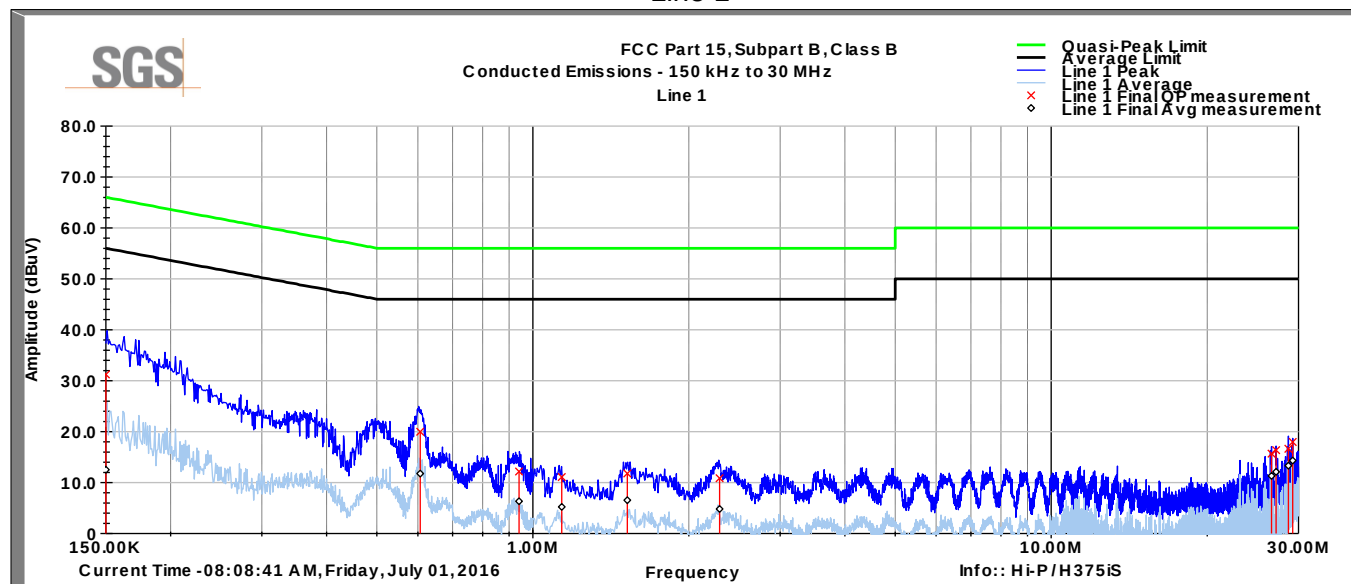
Note: The equipment calibration period is 1 year.

Software:

"Conducted Emissions" TILE! profile dated Mar 2016

## 11.5 Test Data

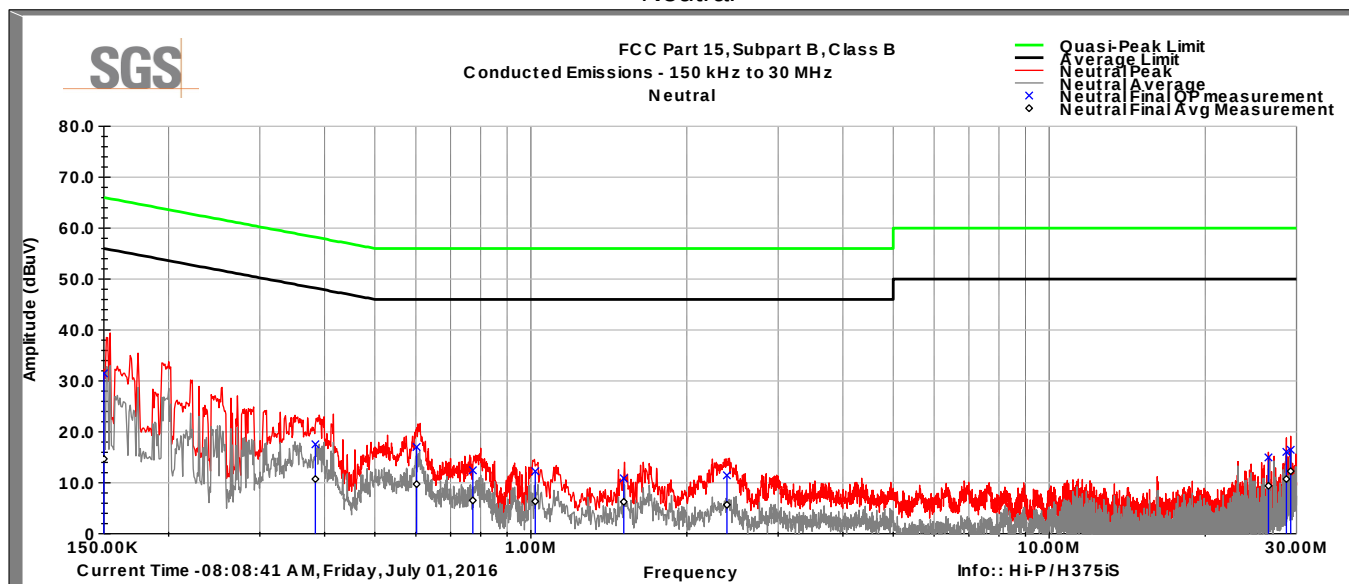
### Conducted Emissions Plot 150-30MHz Line 1



### Conducted Emissions Data 150-30MHz Line 1

| Frequency<br>MHz | QP Value<br>dBuV | QP Limit<br>dBuV | QP Margin<br>dB | Avg Value<br>dBuV | Avg Limit<br>dBuV | Avg Margin<br>dB |
|------------------|------------------|------------------|-----------------|-------------------|-------------------|------------------|
| 0.150            | 31.2             | 66.0             | -34.8           | 12.5              | 56.0              | -43.5            |
| 0.606            | 20.0             | 56.0             | -36.0           | 11.8              | 46.0              | -34.2            |
| 0.940            | 12.2             | 56.0             | -43.8           | 6.3               | 46.0              | -39.7            |
| 1.137            | 11.1             | 56.0             | -44.9           | 5.2               | 46.0              | -40.8            |
| 1.522            | 11.8             | 56.0             | -44.2           | 6.5               | 46.0              | -39.5            |
| 2.293            | 10.8             | 56.0             | -45.2           | 4.8               | 46.0              | -41.2            |
| 26.610           | 15.7             | 60.0             | -44.3           | 11.3              | 50.0              | -38.7            |
| 27.160           | 16.4             | 60.0             | -43.6           | 12.1              | 50.0              | -37.9            |
| 28.685           | 16.6             | 60.0             | -43.4           | 13.3              | 50.0              | -36.7            |
| 29.235           | 18.0             | 60.0             | -42.0           | 14.3              | 50.0              | -35.7            |

### Conducted Emissions Plot 150-30MHz Neutral



### Conducted Emissions Data 150-30MHz Neutral

| Frequency<br>MHz | QP Value<br>dBuV | QP Limit<br>dBuV | QP Margin<br>dB | Avg Value<br>dBuV | Avg Limit<br>dBuV | Avg Margin<br>dB |
|------------------|------------------|------------------|-----------------|-------------------|-------------------|------------------|
| 0.150            | 31.5             | 66.0             | -34.5           | 14.7              | 56.0              | -41.3            |
| 0.384            | 17.6             | 58.2             | -40.7           | 10.7              | 48.2              | -37.5            |
| 0.602            | 17.0             | 56.0             | -39.0           | 9.7               | 46.0              | -36.3            |
| 0.773            | 12.4             | 56.0             | -43.6           | 6.5               | 46.0              | -39.5            |
| 1.020            | 12.2             | 56.0             | -43.8           | 6.3               | 46.0              | -39.7            |
| 1.511            | 10.9             | 56.0             | -45.1           | 6.3               | 46.0              | -39.7            |
| 2.389            | 11.5             | 56.0             | -44.5           | 5.7               | 46.0              | -40.3            |
| 26.489           | 15.0             | 60.0             | -45.0           | 9.4               | 50.0              | -40.6            |
| 28.689           | 16.0             | 60.0             | -44.0           | 10.7              | 50.0              | -39.3            |
| 29.235           | 16.5             | 60.0             | -43.5           | 12.3              | 50.0              | -37.7            |

## 12 Revision History

| Revision Level | Description of changes                                                                                                                                                | Revision Date |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 0              | Initial release                                                                                                                                                       | 15 July 2016  |
| 1              | <ul style="list-style-type: none"> <li>- Corrected units in power measurement table on page 10.</li> <li>- Corrected dwell time limit reference on page 28</li> </ul> | 22 July 2016  |
|                |                                                                                                                                                                       |               |
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