



FCC Test Report

FCC ID : UDX-60082010

Equipment: Network Camera

Brand Name: CISCO

Model Name: MV32-HW

Applicant/ : Cisco Systems

Manufacturer 170 West Tasman Drive

San Jose, California. 95134

United States

Standard : 47 CFR FCC Part 15.247

The product was received on May 24, 2018, and testing was started from Oct. 24, 2018 and completed on Oct. 26, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

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History of this test report

| Report No. | Version | Description | Issued Date |
|------------|---------|-------------------------|---------------|
| FR851627AD | 01 | Initial issue of report | Dec. 14, 2018 |
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Summary of Test Result

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| Report Clause | Ref. Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|------------------|---------------------|--|-----------------------|---------------------------------|
| 1.1.2 | 15.203 | Antenna Requirement | PASS | FCC 15.203 |
| 3.1 | 15.207 | AC Power-line Conducted Emissions | PASS | FCC 15.207 |
| 3.2 | 15.247(a) | 20dB Bandwidth | PASS | 15.247(a) |
| 3.2 | 15.247(a) | Carrier Frequency Separation | PASS | 15.247(a) |
| 3.3 | 15.247(b) | Maximum Conducted Output Power | PASS | 15.247(b) |
| 3.4 | 15.247(a) | Number of Hopping Frequencies and Hopping Bandedge | PASS | 15.247(a) |
| 3.5 | 15.247(a) | Time of Occupancy (Dwell Time) | PASS | 15.247(a) |
| 3.6 | 15.247(d) | Emissions in Non-restricted Frequency Bands | PASS | 15.247(d) |
| 3.7 | 15.247(d) | Emissions in Restricted Frequency Bands | PASS | Restricted Bands: FCC 15.209 |

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

None

Reviewed by: Sam Tsai

Report Producer: Michelle Tsai

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General Description

1.1 Information

1.1.1 **RF General Information**

| Frequency Range (MHz) | Bluetooth Version | Ch. Frequency (MHz) | Channel Number |
|-----------------------|-------------------|---------------------|----------------|
| 2400-2483.5 | BR / EDR | 2402-2480 | 0-78 [79] |

| Band | Mode | BWch (MHz) | Nant |
|---------------|---------------|------------|------|
| 2.4-2.4835GHz | BT-BR(1Mbps) | 1 | 1TX |
| 2.4-2.4835GHz | BT-EDR(2Mbps) | 1 | 1TX |
| 2.4-2.4835GHz | BT-EDR(3Mbps) | 1 | 1TX |

Note:

- Bluetooth BR uses a GFSK (1Mbps).
- Bluetooth EDR uses a combination of $\pi/4$ -DQPSK (2Mbps) and 8DPSK (3Mbps).
- Bluetooth BR/EDR uses as a system using FHSS modulation.
- BWch is the nominal channel bandwidth.

1.1.2 **Antenna Information**

| Ant. | Brand | Model Name | Antenna Type | Connector |
|------|-----------|-------------------|----------------|-----------|
| 1 | ARISTOTLE | RFA-25-AP628-P1-U | PIFA Antenna | I-PEX |
| 2 | ARISTOTLE | RFA-25-AP628-P2-U | Dipole Antenna | I-PEX |

| Ant | | Gain (dBi) | |
|------|-------|------------|-------|
| Ant. | 2.4G | 5G | ВТ |
| 1 | -2.22 | -1.69 | -2.22 |
| 2 | -1.4 | -1.36 | - |

For 2.4 GHz function:

For IEEE 802.11b/g/n mode (1TX/1RX)

The EUT support diversity function, Ant. 1 or Ant. 2 can be used as transmitting/receiving antenna.

For 5 GHz function:

For IEEE 802.11a/n/ac mode (1TX/1RX)

The EUT support diversity function, Ant. 1 or Ant. 2 can be used as transmitting/receiving antenna.

For Bluetooth function:

For Bluetooth mode (1TX/1RX)

Only Ant. 1 can be used as transmitting/receiving antenna.

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1.1.3 EUT Information

| | Operational Condition | | | | | | | | |
|-------------|--|--------------|-------------|--------------------|-----------|------------|----|-----------------|--|
| EU | EUT Power Type From PoE | | | | | | | | |
| EU | Γ Function | า | \boxtimes | Point-to-multipo | oint | | | Point-to-point | |
| | | | | | Type of | EUT | | | |
| \boxtimes | Stand-alo | ne | | | | | | | |
| | Combine | d (EUT where | e the | radio part is full | y integra | ted within | ıa | another device) | |
| | Combine | d Equipment | - Bra | and Name / Mod | el No.: | | | | |
| | Plug-in radio (EUT intended for a variety of host systems) | | | | | | | | |
| | Host System - Brand Name / Model No.: | | | | | | | | |
| | Other: | | | | | | | | |

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1.1.4 Mode Test Duty Cycle

| Mode | DC | DCF(dB) | T(s) | VBW(Hz) ≥ 1/T |
|---------------|-------|---------|--------|---------------|
| BT-BR(1Mbps) | 0.754 | 1.226 | 2.887m | 1k |
| BT-EDR(2Mbps) | 0.756 | 1.215 | 2.888m | 1k |
| BT-EDR(3Mbps) | 0.785 | 1.051 | 2.891m | 1k |

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1.2 **Testing Applied Standards**

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR FCC Part 15
- KDB 558074 D01 v05
- ANSI C63.10-2013

Testing Location Information 1.3

| | Testing Location | | | | | | |
|-------------|--|-----|---|--------------------------|--------|------|---------------------------------------|
| \boxtimes | HWA YA ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) | | | | | | |
| | | TEL | : | 886-3-327-3456 | FAX | : | 886-3-327-0973 |
| | | | | Test site Designation | n No. | TV | /1190 with FCC. |
| | JHUBEI | ADD | : | No.8, Ln. 724, Bo'ai St. | , Zhub | ei (| City, Hsinchu County, Taiwan (R.O.C.) |
| | TEL: 886-3-656-9065 FAX: 886-3-656-9085 | | | | | | |
| | Test site Designation No. TW0006 with FCC. | | | | | | |

| Test Condition | Test Site No. | Test Engineer | Test Environment | Test Date |
|----------------|---------------|---------------|------------------|-------------|
| RF Conducted | TH06-HY | Dexter | 25°C / 59% | 24/Oct/2018 |
| Radiated | 03CH09-HY | Andy | 23.9°C / 61% | 24/Oct/2018 |
| AC Conduction | CO04-HY | Andy | 23.7°C / 61% | 26/Oct/2018 |

1.4 **Measurement Uncertainty**

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

| Test Items | Uncertainty | Remark |
|--------------------------------------|-------------|--------------------------|
| Conducted Emission (150kHz ~ 30MHz) | 3.6 dB | Confidence levels of 95% |
| Radiated Emission (9kHz ~ 30MHz) | 3.0 dB | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 4.3 dB | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz) | 3.9 dB | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz) | 3.5 dB | Confidence levels of 95% |
| Conducted Emission | 1.3 dB | Confidence levels of 95% |
| Temperature | 0.7 °C | Confidence levels of 95% |
| Humidity | 4 % | Confidence levels of 95% |

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2 Test Configuration of EUT

2.1 Test Condition

| RF Conducted | Abbreviation | Remark |
|--------------|--------------|--------|
| TnomVnom | Tnom | 20°C |
| - | Vnom | 120V |

2.2 Test Channel Mode

| Test Software Version | QRCT V3.0.93.0 |
|-----------------------|----------------|
|-----------------------|----------------|

| Mode | PowerSetting |
|---------------|--------------|
| BT-BR(1Mbps) | - |
| 2402MHz | 9 |
| 2441MHz | 9 |
| 2480MHz | 9 |
| BT-EDR(2Mbps) | - |
| 2402MHz | 9 |
| 2441MHz | 9 |
| 2480MHz | 9 |
| BT-EDR(3Mbps) | - |
| 2402MHz | 9 |
| 2441MHz | 9 |
| 2480MHz | 9 |

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The Worst Case Measurement Configuration 2.3

| The Worst Case Mode for Following Conformance Tests | | |
|--|-----------------------|--|
| Tests Item AC power-line conducted emissions | | |
| Condition AC power-line conducted measurement for line and neutral | | |
| Operating Mode CTX | | |
| 1 | PoE Mode_PIFA Antenna | |

| Th | The Worst Case Mode for Following Conformance Tests | |
|----------------|--|--|
| Tests Item | 20dB Bandwidth Carrier Frequency Separation Maximum Conducted Output Power Number of Hopping Frequencies Hopping Bandedge Time of Occupancy (Dwell Time) Emissions in Non-restricted Frequency Bands | |
| Test Condition | Conducted measurement at transmit chains | |

| The Worst Case Mode for Following Conformance Tests | | | |
|---|--|---------|---------|
| Tests Item | Emissions in Restricted Frequency Bands | | |
| Test Condition | Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type. | | |
| Operating Mode < 1GHz | СТХ | | |
| 1 | PoE Mode_PIFA Antenna | | |
| Operating Mode > 1GHz | z CTX | | |
| | X Plane | Y Plane | Z Plane |
| Orthogonal Planes of EUT | | | |
| Worst Planes of EUT | V | | |

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| The Worst Case Mode for Following Conformance Tests | | |
|---|-----------------------|--|
| Tests Item Simultaneous Transmission Analysis | | |
| Test Condition Radiated measurement | | |
| Operating Mode | Normal Link | |
| 1 | Bluetooth+WLAN 2.4GHz | |
| 2 | Bluetooth+WLAN 5GHz | |

Refer to Sporton Test Report No.: FA851627 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.

Note.

Non-AFH: DH5 Packet permit maximum 1600/79/6 = 3.37 hops per second in each channel (5 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $3.37 \times 1.185 = 4$ within 1.185 seconds. **AFH**: DH5 Packet permit maximum 800/20/6 = 6.67 hops per second in each channel (5 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $13.33 \times 8 = 106.6$ within 8 seconds. Under the above conditions, Non-AFH Mode configuration was found to be the worst case and measured during the test.

2.4 Support Equipment

| | Support Equipment – RF Conducted | | | |
|-----|----------------------------------|------------|------------|--------|
| No. | Equipment | Brand Name | Model Name | FCC ID |
| 1 | Notebook | DELL | E5410 | DoC |
| 2 | Adapter for NB | DELL | HA65NM130 | DoC |
| 3 | AC Power Source | GW | APS-9102 | N/A |

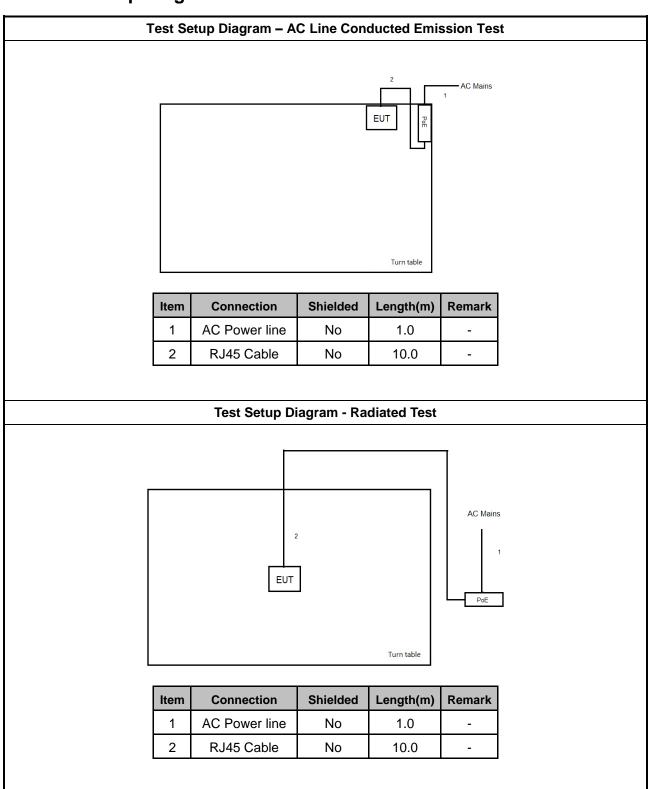
| | Support Equipment – Radiated Emission and AC Conduction | | | |
|-----|---|-------|----------|-----|
| No. | Io. Equipment Brand Name Model Name FCC ID | | FCC ID | |
| 1 | PoE (Client Provide) | CISCO | MA-INJ-4 | N/A |

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Test Setup Diagram 2.5



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Transmitter Test Result 3

AC Power-line Conducted Emissions 3.1

3.1.1 AC Power-line Conducted Emissions Limit

| AC Power-line Conducted Emissions Limit | | | |
|--|-----------|-----------|--|
| Frequency Emission (MHz) Quasi-Peak Average | | | |
| 0.15-0.5 | 66 - 56 * | 56 - 46 * | |
| 0.5-5 | 56 | 46 | |
| 5-30 | 60 | 50 | |
| Note 1: * Decreases with the logarithm of the frequency. | | | |

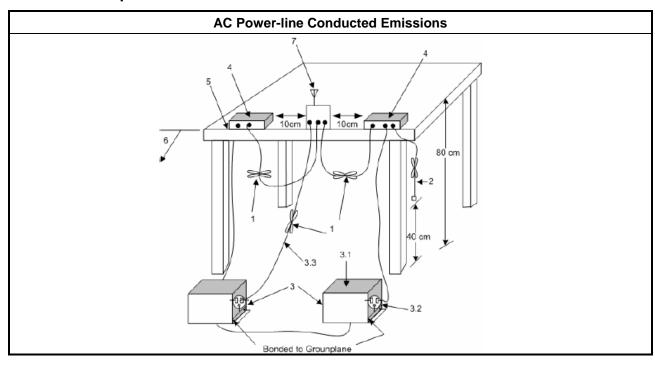
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

Test Procedures 3.1.3

| | Test Method |
|---|---|
| - | Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions. |

3.1.4 **Test Setup**



Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

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3.2 20dB Bandwidth and Carrier Frequency Separation

3.2.1 20dB Bandwidth and Carrier Frequency Separation Limit

| | 20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems | | | |
|-----|---|--|--|--|
| • | ■ 2400-2483.5 MHz Band: | | | |
| | N ≥75 and ChS ≥ MAX (20 dB bandwidth, 25 kHz). | | | |
| | 75>N ≥ 15 and ChS ≥ MAX (20 dB bandwidth 2/3,25 kHz). | | | |
| N:N | N:Number of Hopping Frequencies; ChS: Hopping Channel Separation | | | |

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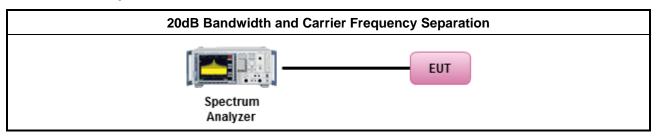
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method Refer as ANSI C63.10-2013, clause 6.9.2 for 20 dB bandwidth measurement. Refer as ANSI C63.10-2013, clause 7.8.2 for carrier frequency separation measurement.

3.2.4 Test Setup



3.2.5 Test Result of 20dB Bandwidth

Refer as Appendix B

3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix B

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3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

| Maximum Conducted Output Power Limit | | | | | | | |
|---------------------------------------|---------------------------------|--|--|--|--|--|--|
| • | ■ 2400-2483.5 MHz Band: | | | | | | |
| | N ≥ 75; Power 30dBm; EIRP 36dBm | | | | | | |
| ■ 75 >N ≥ 15; Power 21dBm; EIRP 27dBm | | | | | | | |
| N:N | lumber of Hopping Frequencies | | | | | | |

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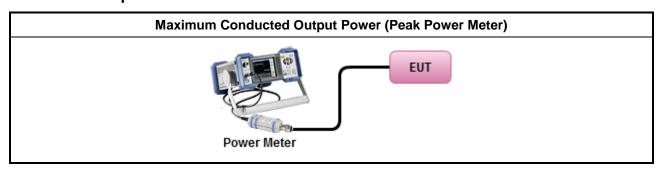
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method ■ Refer as ANSI C63.10-2013, clause 7.8.5 for output power measurement.

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

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3.4 Number of Hopping Frequencies and Hopping Bandedge

3.4.1 Number of Hopping Frequencies Limit

| Number of Hopping Frequencies Limit | | | | | | | |
|-------------------------------------|--|--|--|--|--|--|--|
| • | ■ 2400-2483.5 MHz Band: | | | | | | |
| | N ≥ 75 and ChS ≥ MAX (20 dB bandwidth, 25 kHz). | | | | | | |
| | 75 >N ≥ 15 and ChS ≥ MAX (20 dB bandwidth 2/3,25 kHz). | | | | | | |
| N:N | Number of Hopping Frequencies; ChS : Hopping Channel Separation | | | | | | |

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3.4.2 Hopping Bandedge Limit

Refer clause 3.6.1 and clause 3.7.1

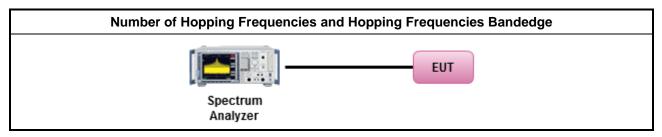
3.4.3 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.4 Test Procedures

| | Test Method |
|---|--|
| | Refer as ANSI C63.10-2013, clause 7.8.3 for number of hopping frequencies measurement. |
| ſ | Refer as ANSI C63.10-2013, clause 7.8.6 for hopping frequencies Bandedge measurement. |

3.4.5 Test Setup



3.4.6 Test Result of Number of Hopping Frequencies

Refer as Appendix D

3.4.7 Test Result of Number of Hopping Frequencies Bandedge

Refer as Appendix D

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3.5 Time of Occupancy (Dwell Time)

3.5.1 Time of Occupancy (Dwell Time) Limit

| | Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems | | | | |
|-------------------------|--|--|--|--|--|
| ■ 2400-2483.5 MHz Band: | | | | | |
| | ■ N ≥ 75; 0.4s in N x 0.4 period | | | | |
| | ■ 75 >N ≥ 15; 0.4s in N x 0.4 period | | | | |
| N:N | umber of Hopping Frequencies | | | | |

3.5.2 Measuring Instruments

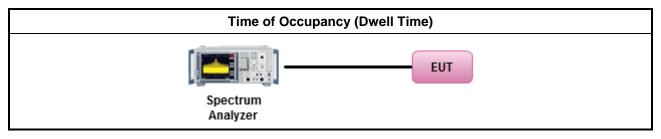
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method

- Refer as ANSI C63.10-2013, clause 7.8.4 for dwell time measurement.
- Bluetooth ACL packets can be 1, 3, or 5 time slots. Following as dwell time. Operate DH5 at maximum dwell time and maximum duty cycle.
 - The DH5 packet can cover up to 5 time slots. Operate DH5 at maximum dwell time and maximum duty cycle. A maximum length packet has duration of 5 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is 5/1600 seconds, or 3.125ms.DH5 Packet permit maximum 1600/79 / 6 = 3.37 hops per second in each channel.

3.5.4 Test Setup



3.5.5 Test Result of Time of Occupancy (Dwell Time)

Refer as Appendix E

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3.6 Emissions in Non-restricted Frequency Bands

3.6.1 Emissions in Non-restricted Frequency Bands Limit

| Un-restricted Band Emissions Limit | | | | |
|--------------------------------------|----|--|--|--|
| RF output power procedure Limit (dB) | | | | |
| Peak output power procedure | 20 | | | |

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Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

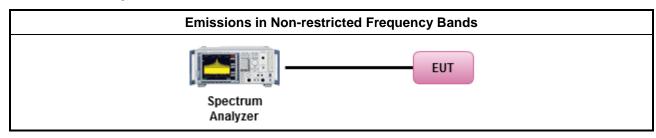
3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

| Test Method | |
|---|--|
| Refer as ANSI C63.10-2013, clause 7.8.8 for unwanted emissions into non-restricted bands. | |

3.6.4 Test Setup



3.6.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix F

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3.7 Emissions in Restricted Frequency Bands

3.7.1 Emissions in Restricted Frequency Bands Limit

| Restricted Band Emissions Limit | | | | | | | |
|---------------------------------|-----------------------|-------------------------|----------------------|--|--|--|--|
| Frequency Range (MHz) | Field Strength (uV/m) | Field Strength (dBuV/m) | Measure Distance (m) | | | | |
| 0.009~0.490 | 2400/F(kHz) | 48.5 - 13.8 | 300 | | | | |
| 0.490~1.705 | 24000/F(kHz) | 33.8 - 23 | 30 | | | | |
| 1.705~30.0 | 30 | 29 | 30 | | | | |
| 30~88 | 100 | 40 | 3 | | | | |
| 88~216 | 150 | 43.5 | 3 | | | | |
| 216~960 | 200 | 46 | 3 | | | | |
| Above 960 | 500 | 54 | 3 | | | | |

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB / decade). The test report shall specify the extrapolation method used to determine compliance of the ELIT

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.7.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.7.3 Test Procedures

Test Method

- The average emission levels shall be measured in [hopping duty factor].
- Refer as ANSI C63.10; clause 6.9.2.2 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
- For the transmitter unwanted emissions shall be measured using following options below:
 - Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.
 - Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.
 - Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.

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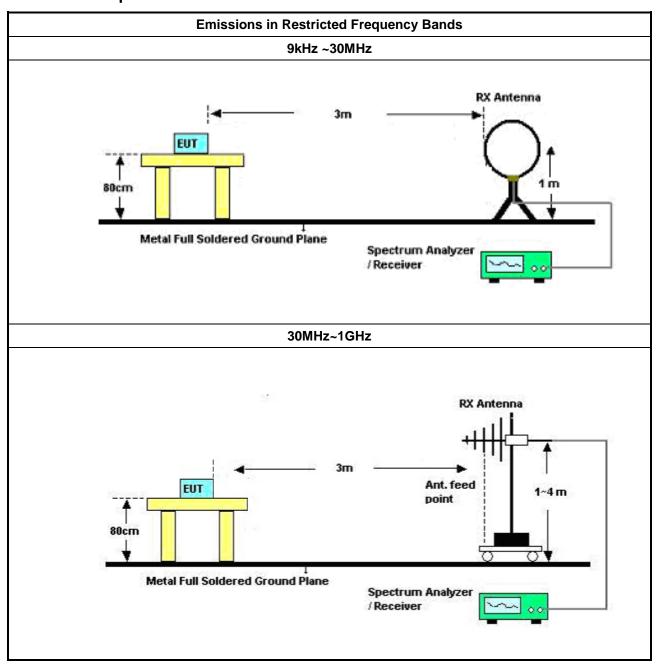
FCC ID: UDX-60082010

Report Version : 01

Report No.: FR851627AD



3.7.4 **Test Setup**



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Above 1GHz

Spectrum Analyzer

Report No.: FR851627AD

3.7.5 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

3.7.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix G

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4 Test Equipment and Calibration Data

Instrument for AC Conduction

| instrument for AC Conduction | | | | | | | | |
|--------------------------------------|--------------|-------------|------------|---------------------|---------------------|-------------------------|--|--|
| Instrument | Manufacturer | Model No. | Serial No. | Spec. | Calibration Date | Calibration Due Date | | |
| EMC Receiver | R&S | ESR | 102051 | 9KHz ~ 3.6GHz | 03/May/2018 | 02/May/2019 | | |
| LISN | R&S | ENV216 | 101295 | 9kHz ~ 30MHz | 17/Nov/2017 | 16/Nov/2018 | | |
| RF Cable-CON | MTJ | RG142 | CB002-CO | 9kHz ~ 200MHz | 17/Sep/2018 | 16/Sep/2019 | | |
| AC POWER | APC | AFC-11005G | F310050055 | 47Hz~63Hz 5~300V | NCR | NCR | | |
| Impuls Begrenzer Pulse Limiter | SCHWARZBECK | VTSD 9561-F | 9561-F041 | 9 kHz ~ 30 MHz | 12/Oct/2018 | 11/Oct/2019 | | |

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NCR : Non-Calibration Require

Instrument for Radiated Test

| Instrument | Manufacturer | Model No. | Serial No. | Spec. | Calibration Date | Calibration Due Date |
|--|--------------|--------------------------|-------------------------|----------------|---------------------|-------------------------|
| 3m Semi Anechoic TDK Chamber | | SAC-3M | 03CH09-HY | 30MHz ~ 1GHz | 23/Apr/2018 | 22/Apr/2019 |
| 3m Semi Anechoic Chamber | TDK | SAC-3M | 03CH09-HY | 1GHz ~ 18GHz | 14/Jun/2018 | 13/Jun/2019 |
| Microwave Preamplifier | Agilent | 8449B | 3008A02096 | 1GHz ~ 26.5GHz | 10/May/2018 | 09/May/2019 |
| Amplifier | EMC | EMC9135 | 980232 | 9KHz~1GHz | 27/Apr/2018 | 26/Apr/2019 |
| EXA Signal Analyzer | KEYSIGHT | N9010A | MY54200885 10Hz ~ 44GHz | | 31/Jul/2018 | 30/Jul/2019 |
| Bilog Antenna & 5dB Attenuator | TESEQ & MTJ | CBL6111D & MTJ6102-05 | 35418 / 3 30MHz~1GHz | | 02/Oct/2018 | 03/Oct/2019 |
| Double Ridged Guide Horn Antenna | SCHWARZBECK | BBHA 9120 D | BBHA9120 D 1534 | 1GHz~18GHz | 30/Apr/2018 | 29/Apr/2019 |
| Broadband Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170614 | 18GHz~40GHz | 09/Feb/2018 | 08/Feb/2019 |
| Preamplifier | MITEQ | TTA1840-35-HG | 1864481 | 18GHz ~ 40GHz | 24/Aug/2018 | 23/Aug/2019 |
| Loop Antenna | TESEQ | HLA 6120 | 31244 | 9k-30MHz | 29/Mar/2018 | 28/Mar/2019 |
| RF Cable-R03m | Jye Bao | RG142 | CB031 | 9kHz ~ 1GHz | 1/Feb/2018 | 31/Jan/2019 |
| RF Cable-high | HUBER+SUHNER | SUCOFLEX104 | SN 556626/4 + 556627 | 1GHz ~ 40GHz | 14/Mar/2018 | 13/Mar/2019 |

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FCC Test Report

Instrument for Conducted Test

| instrument for conducted rest | | | | | | | |
|-------------------------------|--------------|--------------|------------|--------------------|---------------------|-------------------------|--|
| Instrument | Manufacturer | Model No. | Serial No. | Spec. | Calibration Date | Calibration Due Date | |
| Signal Analyzer | R&S | FSV40 | 101500 | 10Hz ~ 40GHz | 18/Jul/2018 | 17/Jul/2019 | |
| Power Sensor | Anritsu | MA2411B | 1339407 | 300MHz ~ 40GHz | 06/Nov/2017 | 05/Nov/2018 | |
| Power Meter | Anritsu | ML2495A | 1517010 | 300MHz ~ 40GHz | 06/Nov/2017 | 05/Nov/2018 | |
| RF Cable-1.5m | HUBER+SUHNER | SUCOFLEX_104 | MY12585/4 | 30MHz ~ 26.5GHz | 26/Jan/2018 | 25/Jan/2019 | |
| RF Cable-0.2m | HUBER+SUHNER | SUCOFLEX_104 | MY10710/4 | 30MHz ~ 26.5GHz | 26/Jan/2018 | 25/Jan/2019 | |
| RF Cable-0.2m | HUBER+SUHNER | SUCOFLEX_104 | MY10709/4 | 30MHz ~ 26.5GHz | 26/Jan/2018 | 25/Jan/2019 | |
| Signal Generator | R&S | SMB100A | 175727 | 100kHz~40GHz | 26/Oct/2017 | 25/Oct/2018 | |

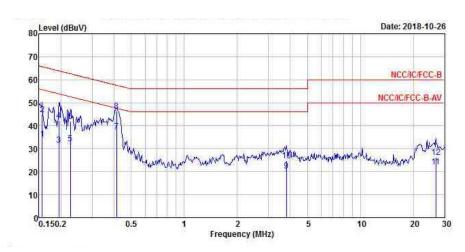
Report No.: FR851627AD

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AC Power-line Conducted Emissions

| | AC Power-line Conducted Emissions Result | | | | |
|--------------------|--|-------------|---------|--|--|
| Operating Mode | 1 | Power Phase | Neutral | | |
| Operating Function | PoE Mode_PIFA Antenna | | | | |



| | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark |
|------------------|-------|-------|---------------|---------------|---------------|----------------|---------------|---------|
| 19 | MHz | dBuV | dB | dBuV | dBuV | dB | dB | - |
| 1 | 0.16 | 34.31 | -21.34 | 55.65 | 24.64 | 9.63 | 0.04 | Average |
| 2 | 0.16 | 44.79 | -20.86 | 65.65 | 35.12 | 9.63 | 0.04 | QP |
| 3 | 0.19 | 31.64 | -22.20 | 53.84 | 22.02 | 9.62 | 0.00 | Average |
| 2 3 4 5 | 0.19 | 42.30 | -21.54 | 63.84 | 32.68 | 9.62 | 0.00 | QP |
| 5 | 0.23 | 32.05 | -20.56 | 52.61 | 22.41 | 9.62 | 0.02 | Average |
| 6 | 0.23 | 42.02 | -20.59 | 62.61 | 32.38 | 9.62 | 0.02 | QP |
| 7 MAX | 0.41 | 37.53 | -10.06 | 47.59 | 27.82 | 9.61 | 0.10 | Average |
| 8 | 0.41 | 46.30 | -11.29 | 57.59 | 36.59 | 9.61 | 0.10 | QP |
| 9 | 3.80 | 20.34 | -25.66 | 46.00 | 10.62 | 9.64 | 0.08 | Average |
| 10 | 3.80 | 24.72 | -31.28 | 56.00 | 15.00 | 9.64 | 0.08 | QP |
| 11 | 26.84 | 22.21 | -27.79 | 50.00 | 12.40 | 9.70 | 0.11 | Average |
| 12 | 26.84 | 26.28 | -33.72 | 60.00 | 16.47 | 9.70 | 0.11 | QP |

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

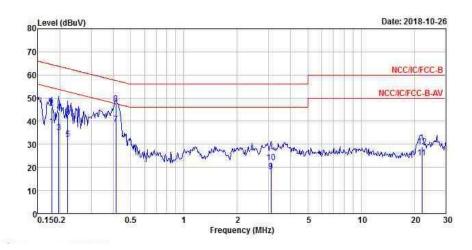
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

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AC Power-line Conducted Emissions

| AC Power-line Conducted Emissions Result | | | | | |
|--|--|--|--|--|--|
| Operating Mode 1 Power Phase Line | | | | | |
| Operating Function PoE Mode_PIFA Antenna | | | | | |



| | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark |
|------------------|-------|-------|---------------|---------------|---------------|----------------|---------------|---------|
| ē- | MHz | dBuV | dB | dBuV | dBuV | dB | dB | - |
| 1 | 0.18 | 37.77 | -16.73 | 54.50 | 28.13 | 9.62 | 0.02 | Average |
| 2 | 0.18 | 45.67 | -18.83 | 64.50 | 36.03 | 9.62 | 0.02 | QP |
| 3 | 0.20 | 35.19 | -18.57 | 53.76 | 25.57 | 9.62 | 0.00 | Average |
| 2 3 4 5 | 0.20 | 43.87 | -19.89 | 63.76 | 34.25 | 9.62 | 0.00 | QP |
| 5 | 0.22 | 32.14 | -20.65 | 52.79 | 22.51 | 9.62 | 0.01 | Average |
| 6 | 0.22 | 42.83 | -19.96 | 62.79 | 33.20 | 9.62 | 0.01 | QP |
| 7 MAX | 0.41 | 38.79 | -8.80 | 47.59 | 29.08 | 9.61 | 0.10 | Average |
| 8 | 0.41 | 47.59 | -10.00 | 57.59 | 37.88 | 9.61 | 0.10 | QP |
| 9 | 3.11 | 18.25 | -27.75 | 46.00 | 8.57 | 9.63 | 0.05 | Average |
| 10 | 3.11 | 22.08 | -33.92 | 56.00 | 12.40 | 9.63 | 0.05 | QP |
| 11 | 22.06 | 24.17 | -25.83 | 50.00 | 14.47 | 9.59 | 0.11 | Average |
| 12 | 22.06 | 28.99 | -31.01 | 60.00 | 19.29 | 9.59 | 0.11 | QP |

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

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EBW-FS Result Appendix B.1

Summary

| Mode | Max-N dB | Max-OBW | ITU-Code | Min-N dB | Min-OBW |
|---------------|----------|---------|----------|----------|----------|
| | (Hz) | (Hz) | | (Hz) | (Hz) |
| 2.4-2.4835GHz | - | - | - | - | - |
| BT-BR(1Mbps) | 918.75k | 900.8k | 901KF1D | 917.5k | 893.303k |
| BT-EDR(2Mbps) | 1.3M | 1.193M | 1M19G1D | 1.253M | 1.187M |
| BT-EDR(3Mbps) | 1.255M | 1.198M | 1M20G1D | 1.254M | 1.191M |

Max-N dB = Maximum 20dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth; Min-N dB = Minimum 20dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth;

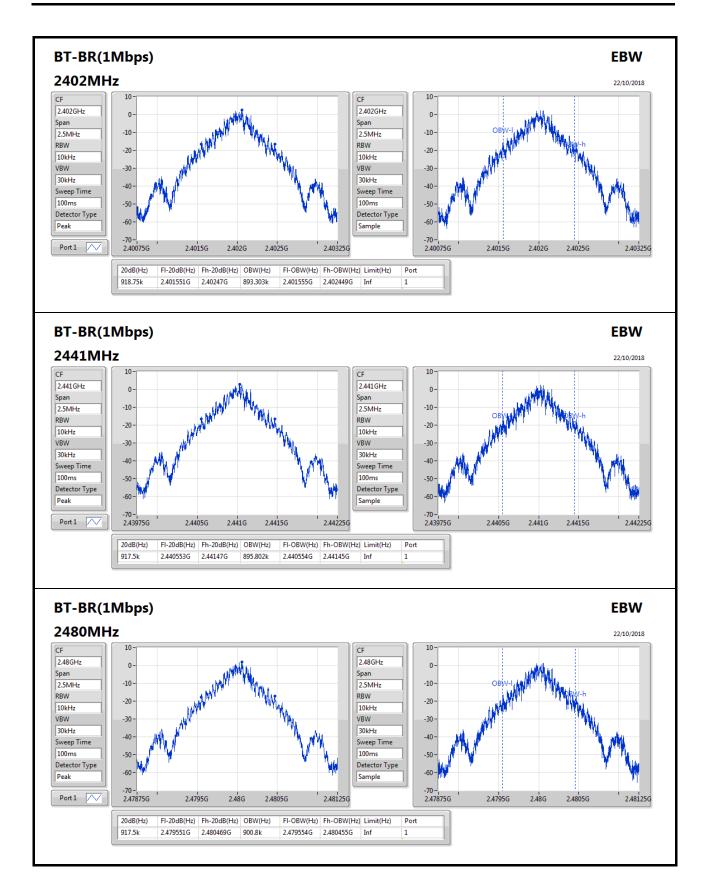
Result

| Mode | Result | Limit | Port 1-N dB | Port 1-OBW |
|------------------|--------|-------|-------------|------------|
| | | (Hz) | (Hz) | (Hz) |
| BT-BR(1Mbps) | - | - | - | - |
| 2402MHz_TnomVnom | Pass | Inf | 918.75k | 893.303k |
| 2441MHz_TnomVnom | Pass | Inf | 917.5k | 895.802k |
| 2480MHz_TnomVnom | Pass | Inf | 917.5k | 900.8k |
| BT-EDR(2Mbps) | - | - | - | - |
| 2402MHz_TnomVnom | Pass | Inf | 1.279M | 1.187M |
| 2441MHz_TnomVnom | Pass | Inf | 1.3M | 1.193M |
| 2480MHz_TnomVnom | Pass | Inf | 1.253M | 1.187M |
| BT-EDR(3Mbps) | - | - | - | - |
| 2402MHz_TnomVnom | Pass | Inf | 1.254M | 1.191M |
| 2441MHz_TnomVnom | Pass | Inf | 1.255M | 1.196M |
| 2480MHz_TnomVnom | Pass | Inf | 1.255M | 1.198M |

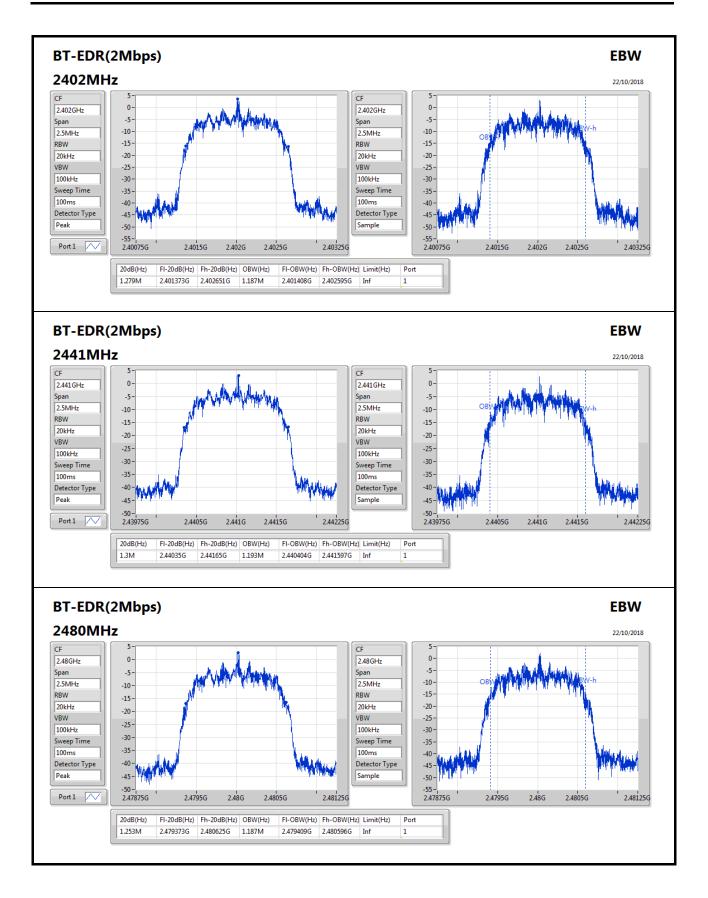
Port X-N dB = Port X 20dB down bandwidth; Port X-OBW = Port X 99% occupied bandwidth;

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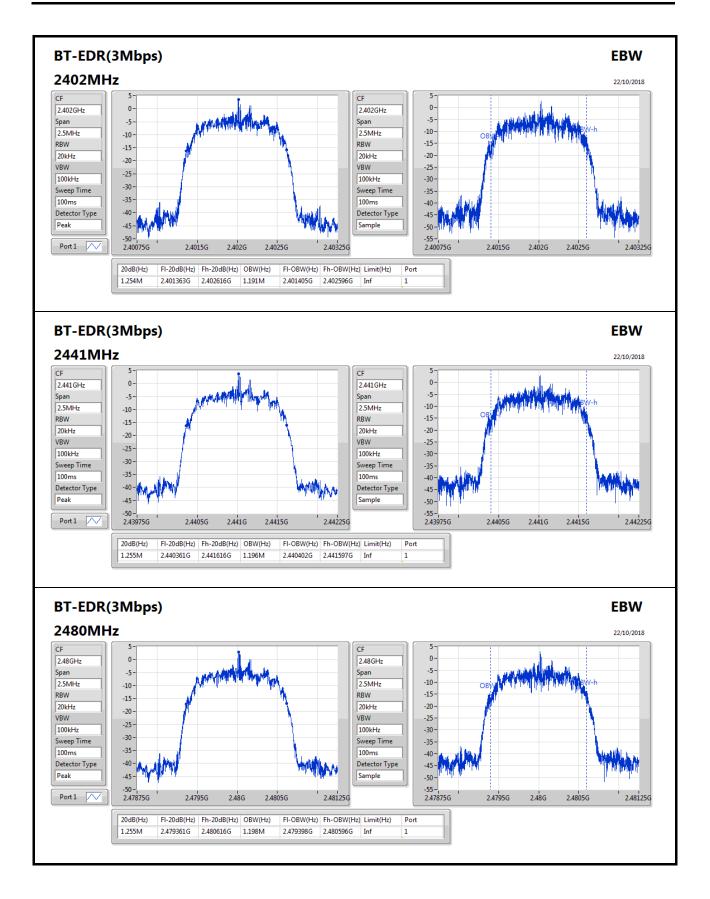














Channel Separation-FS Result

Appendix B.2

Summary

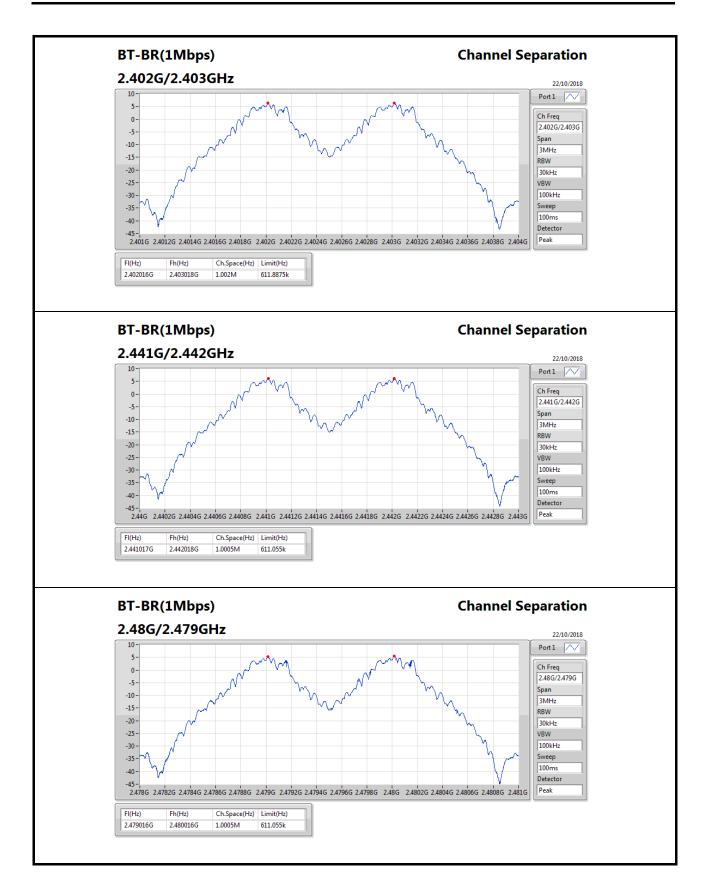
| Mode | Max-Space | Min-Space |
|---------------|-----------|-----------|
| | (Hz) | (Hz) |
| 2.4-2.4835GHz | - | - |
| BT-BR(1Mbps) | 1.002M | 1.0005M |
| BT-EDR(2Mbps) | 1.002M | 1.0005M |
| BT-EDR(3Mbps) | 999k | 999k |

Result

| Mode | Result | FI | Fh | Ch.Space | Limit |
|------------------|--------|-----------|-----------|----------|-----------|
| | | (Hz) | (Hz) | (Hz) | (Hz) |
| BT-BR(1Mbps) | - | - | - | - | - |
| 2402MHz_TnomVnom | Pass | 2.402016G | 2.403018G | 1.002M | 611.8875k |
| 2441MHz_TnomVnom | Pass | 2.441017G | 2.442018G | 1.0005M | 611.055k |
| 2480MHz_TnomVnom | Pass | 2.479016G | 2.480016G | 1.0005M | 611.055k |
| BT-EDR(2Mbps) | - | - | - | - | - |
| 2402MHz_TnomVnom | Pass | 2.402016G | 2.403018G | 1.002M | 851.814k |
| 2441MHz_TnomVnom | Pass | 2.441016G | 2.442016G | 1.0005M | 865.8k |
| 2480MHz_TnomVnom | Pass | 2.479017G | 2.480018G | 1.0005M | 834.498k |
| BT-EDR(3Mbps) | - | - | - | - | - |
| 2402MHz_TnomVnom | Pass | 2.402017G | 2.403016G | 999k | 835.164k |
| 2441MHz_TnomVnom | Pass | 2.441017G | 2.442016G | 999k | 835.83k |
| 2480MHz_TnomVnom | Pass | 2.479017G | 2.480016G | 999k | 835.83k |

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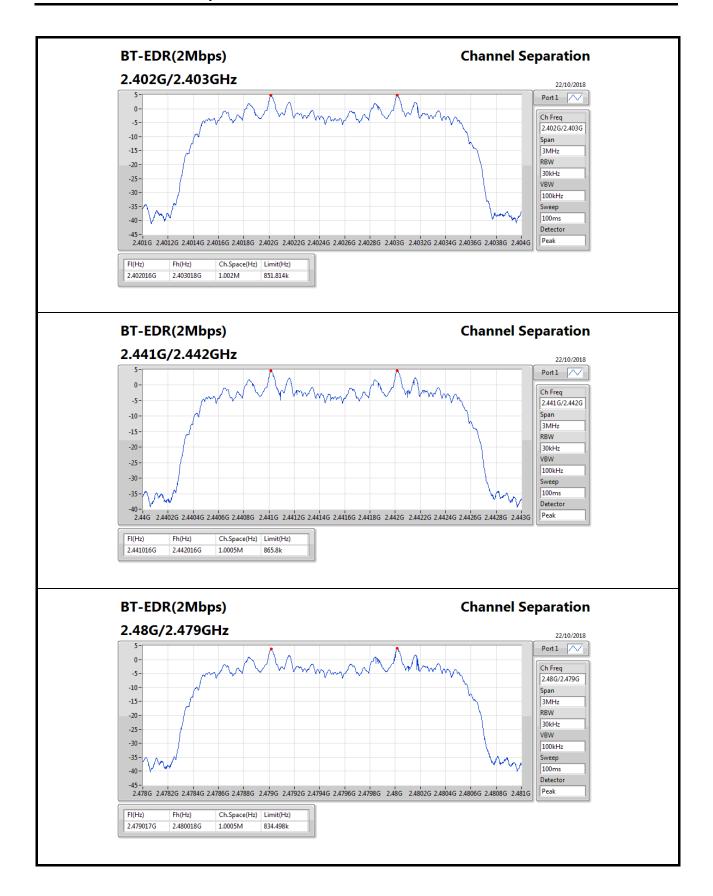
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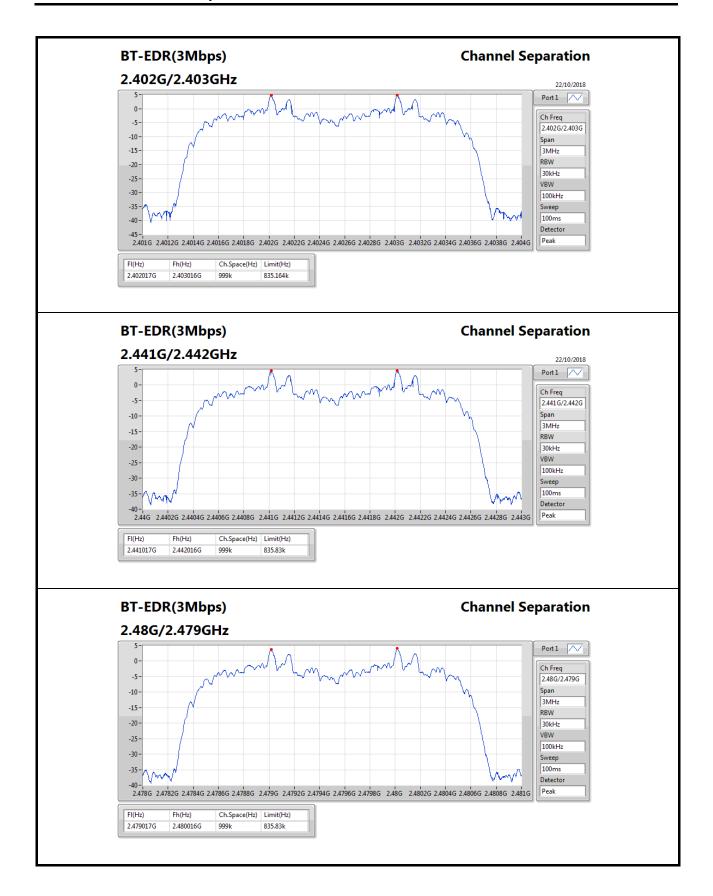




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PK Power Result Appendix C.1

Summary

| Mode | Power | Power |
|---------------|-------|---------|
| | (dBm) | (W) |
| 2.4-2.4835GHz | - | - |
| BT-BR(1Mbps) | 8.65 | 0.00733 |
| BT-EDR(2Mbps) | 8.72 | 0.00745 |
| BT-EDR(3Mbps) | 9.00 | 0.00794 |

Result

| Mode | Result | Gain | Power | Power Limit |
|------------------|--------|-------|-------|-------------|
| | | (dBi) | (dBm) | (dBm) |
| BT-BR(1Mbps) | - | - | - | - |
| 2402MHz_TnomVnom | Pass | -2.22 | 8.65 | 21.00 |
| 2441MHz_TnomVnom | Pass | -2.22 | 8.47 | 21.00 |
| 2480MHz_TnomVnom | Pass | -2.22 | 7.81 | 21.00 |
| BT-EDR(2Mbps) | - | - | - | - |
| 2402MHz_TnomVnom | Pass | -2.22 | 8.72 | 21.00 |
| 2441MHz_TnomVnom | Pass | -2.22 | 8.52 | 21.00 |
| 2480MHz_TnomVnom | Pass | -2.22 | 7.76 | 21.00 |
| BT-EDR(3Mbps) | - | - | - | - |
| 2402MHz_TnomVnom | Pass | -2.22 | 9.00 | 21.00 |
| 2441MHz_TnomVnom | Pass | -2.22 | 8.78 | 21.00 |
| 2480MHz_TnomVnom | Pass | -2.22 | 8.04 | 21.00 |

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AV Power-FS Result

Summary

| Mode | Power | Power |
|---------------|-------|---------|
| | (dBm) | (W) |
| 2.4-2.4835GHz | - | - |
| BT-BR(1Mbps) | 8.91 | 0.00778 |
| BT-EDR(2Mbps) | 6.77 | 0.00475 |
| BT-EDR(3Mbps) | 6.70 | 0.00468 |

Result

| Mode | Result | Gain | Power | Power Limit |
|------------------|--------|-------|-------|-------------|
| | | (dBi) | (dBm) | (dBm) |
| BT-BR(1Mbps) | - | - | - | - |
| 2402MHz_TnomVnom | Pass | -2.22 | 8.91 | 30.00 |
| 2441MHz_TnomVnom | Pass | -2.22 | 8.73 | 30.00 |
| 2480MHz_TnomVnom | Pass | -2.22 | 8.09 | 30.00 |
| BT-EDR(2Mbps) | - | - | - | - |
| 2402MHz_TnomVnom | Pass | -2.22 | 6.77 | 30.00 |
| 2441MHz_TnomVnom | Pass | -2.22 | 6.58 | 30.00 |
| 2480MHz_TnomVnom | Pass | -2.22 | 6.00 | 30.00 |
| BT-EDR(3Mbps) | - | - | - | - |
| 2402MHz_TnomVnom | Pass | -2.22 | 6.70 | 30.00 |
| 2441MHz_TnomVnom | Pass | -2.22 | 6.63 | 30.00 |
| 2480MHz_TnomVnom | Pass | -2.22 | 5.96 | 30.00 |

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Appendix D

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Summary

SPORTON LAB.

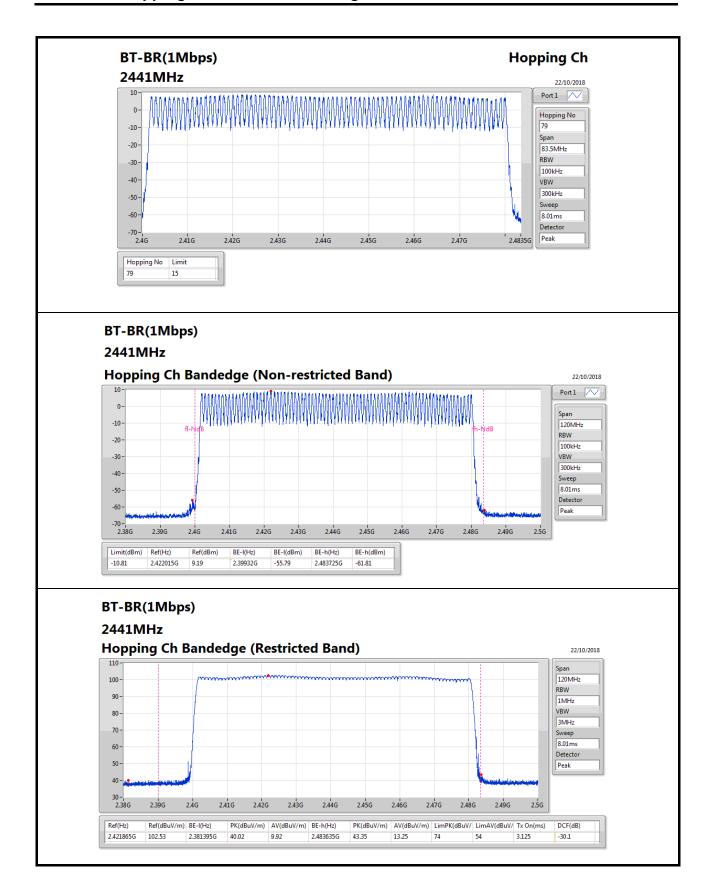
| Mode | Max-Hop No | | | |
|---------------|------------|--|--|--|
| | | | | |
| 2.4-2.4835GHz | - | | | |
| BT-BR(1Mbps) | 79 | | | |
| BT-EDR(2Mbps) | 79 | | | |
| BT-EDR(3Mbps) | 79 | | | |

Result

| Mode | Result | Hopping No | Limit |
|------------------|--------|------------|-------|
| | | | |
| BT-BR(1Mbps) | - | - | - |
| 2441MHz_TnomVnom | Pass | 79 | 15 |
| BT-EDR(2Mbps) | - | - | - |
| 2441MHz_TnomVnom | Pass | 79 | 15 |
| BT-EDR(3Mbps) | - | - | - |
| 2441MHz_TnomVnom | Pass | 79 | 15 |

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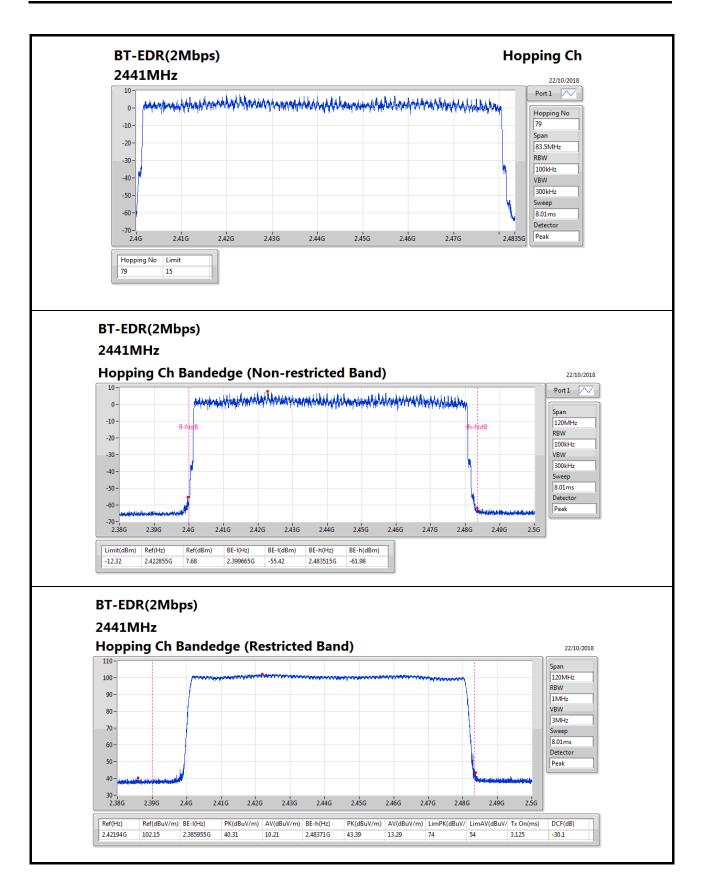




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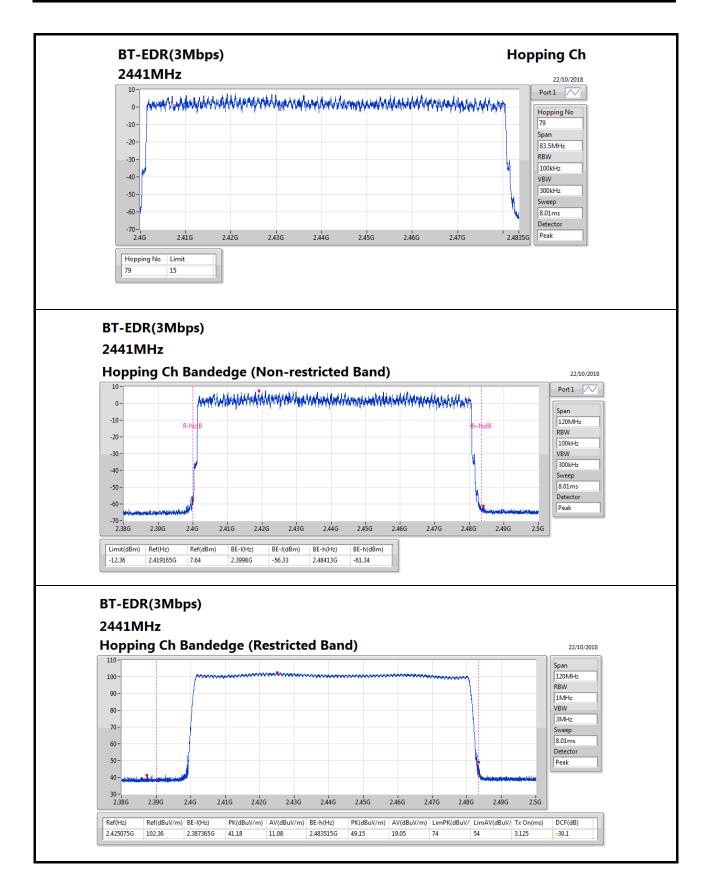
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Dwell Time-FS Result

Summary

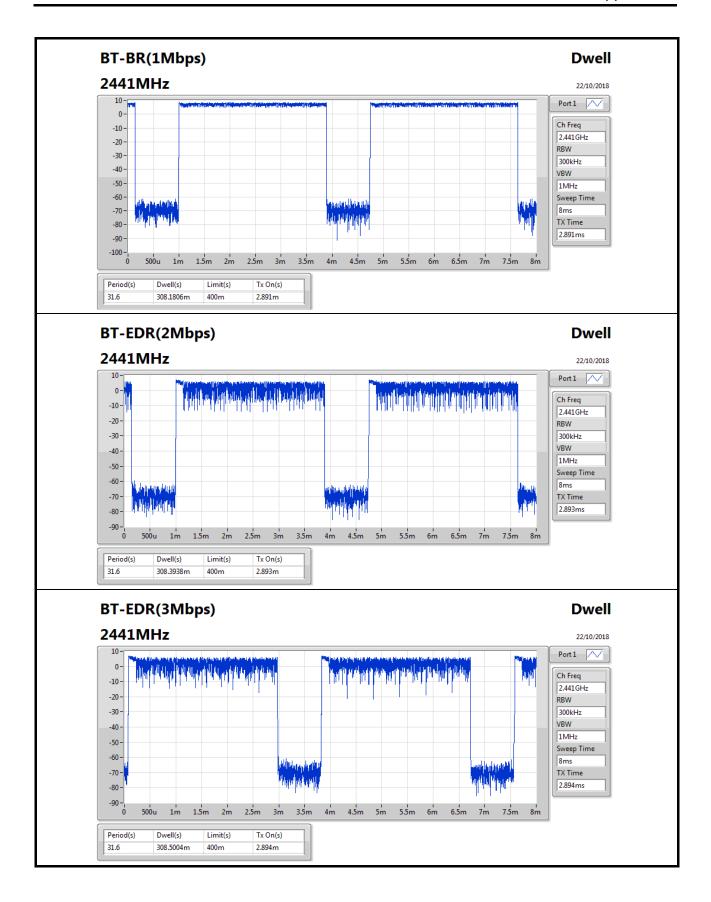
| Mode | Max-Dwell |
|---------------|-----------|
| | (s) |
| 2.4-2.4835GHz | - |
| BT-BR(1Mbps) | 308.1806m |
| BT-EDR(2Mbps) | 308.3938m |
| BT-EDR(3Mbps) | 308.5004m |

Result

| Mode | Result | Period | Dwell | Limit | Tx On |
|------------------|--------|--------|-----------|-------|--------|
| | | (s) | (s) | (s) | (s) |
| BT-BR(1Mbps) | - | - | - | - | - |
| 2441MHz_TnomVnom | Pass | 31.6 | 308.1806m | 400m | 2.891m |
| BT-EDR(2Mbps) | - | - | - | - | - |
| 2441MHz_TnomVnom | Pass | 31.6 | 308.3938m | 400m | 2.893m |
| BT-EDR(3Mbps) | - | - | - | - | - |
| 2441MHz_TnomVnom | Pass | 31.6 | 308.5004m | 400m | 2.894m |

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CSE Non-restricted Band-FS Result

Appendix E

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Summary

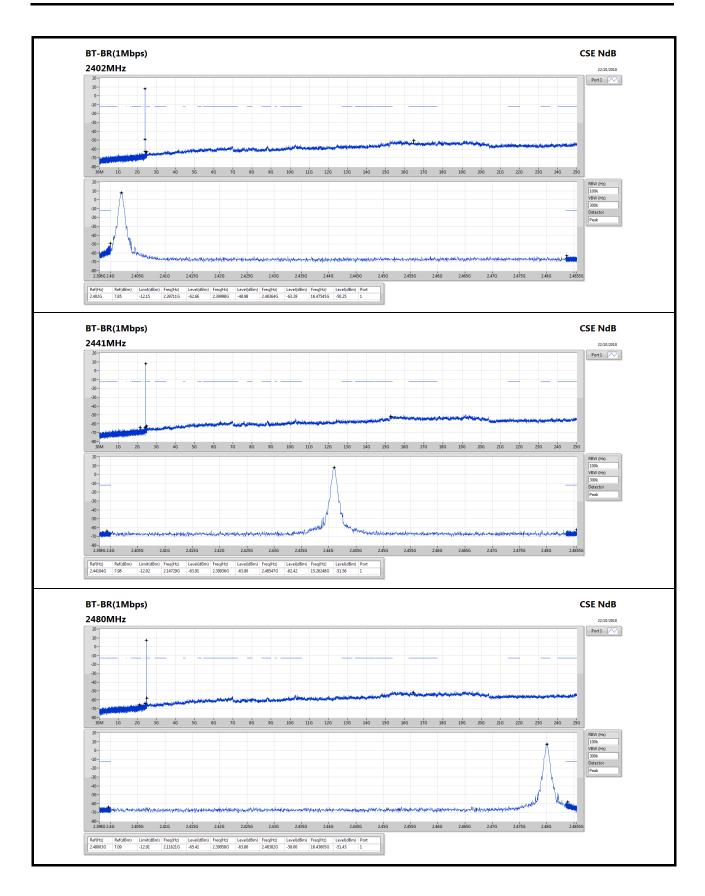
| Mode | Result | Ref | Ref | Limit | Freq | Level | Freq | Level | Freq | Level | Freq | Level | Port |
|---------------|--------|----------|-------|--------|----------|--------|----------|--------|----------|--------|-----------|--------|------|
| | | (Hz) | (dBm) | (dBm) | (Hz) | (dBm) | (Hz) | (dBm) | (Hz) | (dBm) | (Hz) | (dBm) | |
| 2.4-2.4835GHz | - | - | - | - | - | - | - | | - | - | - | - | - |
| BT-BR(1Mbps) | Pass | 2.402G | 7.85 | -12.15 | 2.39711G | -62.66 | 2.39998G | -48.98 | 2.48364G | -63.29 | 16.47545G | -50.25 | 1 |
| BT-EDR(2Mbps) | Pass | 2.40188G | 5.12 | -14.88 | 2.39652G | -63.48 | 2.39998G | -50.50 | 2.4844G | -62.81 | 17.56177G | -50.75 | 1 |
| BT-EDR(3Mbps) | Pass | 2.4018G | 4.15 | -15.85 | 2.39741G | -63.93 | 2.39997G | -50.78 | 2.48506G | -62.86 | 16.77658G | -50.41 | 1 |

Result

| Result | | | | | | | | | | | | | |
|------------------|--------|----------|-------|--------|----------|--------|----------|--------|----------|--------|-----------|--------|------|
| Mode | Result | Ref | Ref | Limit | Freq | Level | Freq | Level | Freq | Level | Freq | Level | Port |
| | | (Hz) | (dBm) | (dBm) | (Hz) | (dBm) | (Hz) | (dBm) | (Hz) | (dBm) | (Hz) | (dBm) | |
| BT-BR(1Mbps) | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2402MHz_TnomVnom | Pass | 2.402G | 7.85 | -12.15 | 2.39711G | -62.66 | 2.39998G | -48.98 | 2.48364G | -63.29 | 16.47545G | -50.25 | 1 |
| 2441MHz_TnomVnom | Pass | 2.44104G | 7.98 | -12.02 | 2.14729G | -63.91 | 2.39936G | -63.80 | 2.48547G | -62.42 | 15.26248G | -51.56 | 1 |
| 2480MHz_TnomVnom | Pass | 2.48003G | 7.09 | -12.91 | 2.11621G | -65.41 | 2.39958G | -63.80 | 2.48382G | -58.00 | 16.43605G | -51.43 | 1 |
| BT-EDR(2Mbps) | - | | - | - | | - | - | - | - | - | - | - | - |
| 2402MHz_TnomVnom | Pass | 2.40188G | 5.12 | -14.88 | 2.39652G | -63.48 | 2.39998G | -50.50 | 2.4844G | -62.81 | 17.56177G | -50.75 | 1 |
| 2441MHz_TnomVnom | Pass | 2.44087G | 6.70 | -13.30 | 2.16594G | -64.93 | 2.39965G | -63.91 | 2.48454G | -62.66 | 17.01017G | -51.38 | 1 |
| 2480MHz_TnomVnom | Pass | 2.48016G | 5.97 | -14.03 | 2.398G | -65.05 | 2.39988G | -63.73 | 2.48354G | -59.71 | 15.27655G | -50.87 | 1 |
| BT-EDR(3Mbps) | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2402MHz_TnomVnom | Pass | 2.4018G | 4.15 | -15.85 | 2.39741G | -63.93 | 2.39997G | -50.78 | 2.48506G | -62.86 | 16.77658G | -50.41 | 1 |
| 2441MHz_TnomVnom | Pass | 2.44117G | 6.80 | -13.20 | 2.39267G | -64.12 | 2.39887G | -63.22 | 2.48461G | -63.26 | 15.21745G | -51.35 | 1 |
| 2480MHz_TnomVnom | Pass | 2.4802G | 4.01 | -15.99 | 2.16298G | -64.54 | 2.39856G | -63.44 | 2.48358G | -58.92 | 15.26248G | -51.07 | 1 |

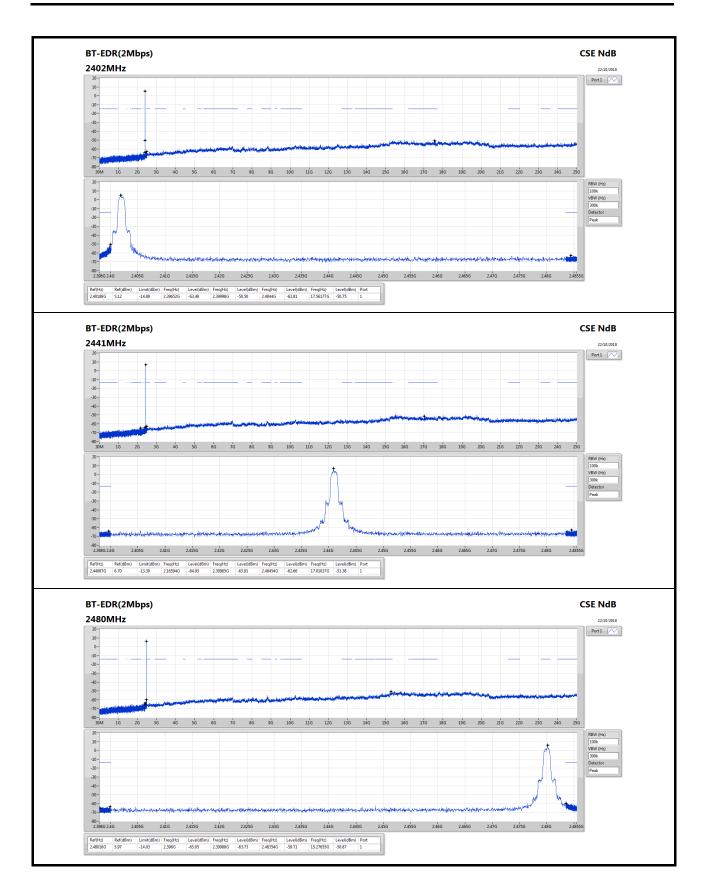
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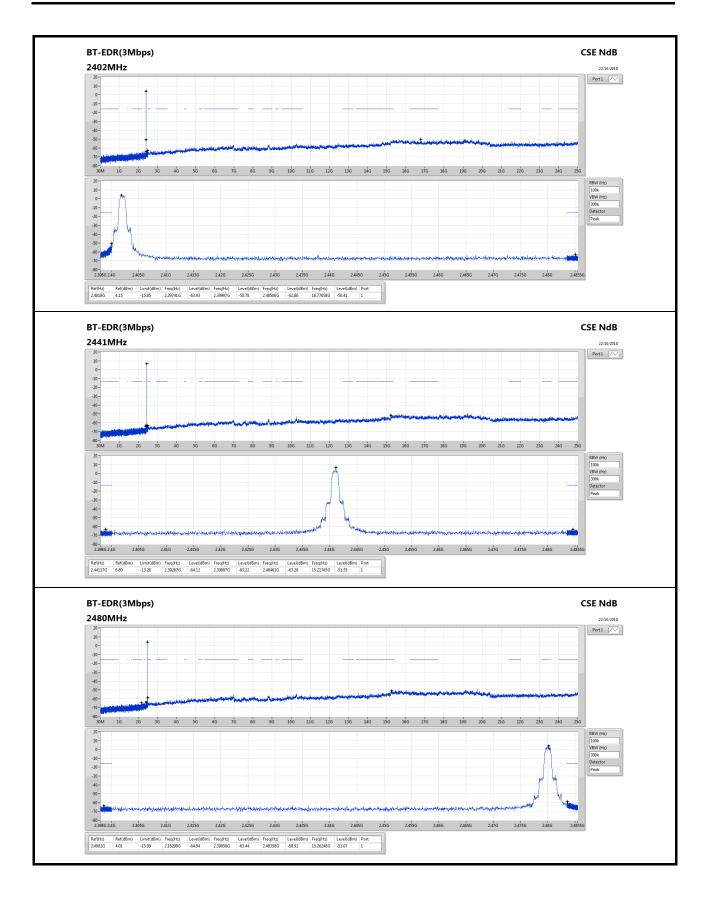
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RSE TX below 1GHz Result

Appendix G.1

851627

Summary

| Mode | Result | Туре | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments |
|---------------|--------|------|--------|----------|----------|--------|--------|------|-----------|---------|--------|----------|
| | | | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | |
| 2.4-2.4835GHz | - | - | - | - | - | - | - | - | - | - | - | - |
| BT-BR(1Mbps) | Pass | QP | 41.64M | 35.91 | 40.00 | -4.09 | -19.21 | 3 | Vertical | 152 | 1.42 | - |

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RSE TX below 1GHz Result

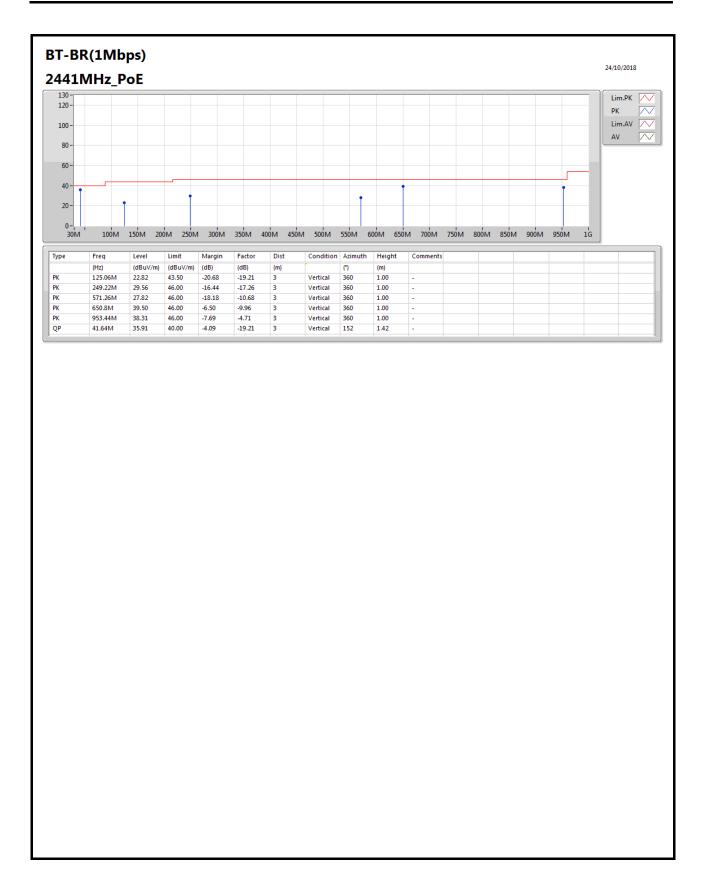
Appendix G.1

Result

| Mode | Result | Туре | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments |
|--------------|--------|------|---------|----------|----------|--------|--------|------|------------|---------|--------|----------|
| | | | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | |
| BT-BR(1Mbps) | - | - | - | - | - | - | - | - | - | - | - | - |
| 2441MHz | Pass | PK | 125.06M | 22.82 | 43.50 | -20.68 | -19.21 | 3 | Vertical | 360 | 1.00 | - |
| 2441MHz | Pass | PK | 249.22M | 29.56 | 46.00 | -16.44 | -17.26 | 3 | Vertical | 360 | 1.00 | - |
| 2441MHz | Pass | PK | 571.26M | 27.82 | 46.00 | -18.18 | -10.68 | 3 | Vertical | 360 | 1.00 | - |
| 2441MHz | Pass | PK | 650.8M | 39.50 | 46.00 | -6.50 | -9.96 | 3 | Vertical | 360 | 1.00 | - |
| 2441MHz | Pass | PK | 953.44M | 38.31 | 46.00 | -7.69 | -4.71 | 3 | Vertical | 360 | 1.00 | - |
| 2441MHz | Pass | QP | 41.64M | 35.91 | 40.00 | -4.09 | -19.21 | 3 | Vertical | 152 | 1.42 | - |
| 2441MHz | Pass | PK | 43.58M | 23.56 | 40.00 | -16.44 | -20.25 | 3 | Horizontal | 0 | 1.00 | - |
| 2441MHz | Pass | PK | 125.06M | 23.95 | 43.50 | -19.55 | -19.21 | 3 | Horizontal | 0 | 1.00 | - |
| 2441MHz | Pass | PK | 249.22M | 31.17 | 46.00 | -14.83 | -17.26 | 3 | Horizontal | 0 | 1.00 | - |
| 2441MHz | Pass | PK | 319.06M | 20.88 | 46.00 | -25.12 | -16.42 | 3 | Horizontal | 0 | 1.00 | - |
| 2441MHz | Pass | PK | 650.8M | 41.90 | 46.00 | -4.10 | -9.96 | 3 | Horizontal | 0 | 1.00 | - |
| 2441MHz | Pass | PK | 693.48M | 33.35 | 46.00 | -12.65 | -9.81 | 3 | Horizontal | 0 | 1.00 | - |

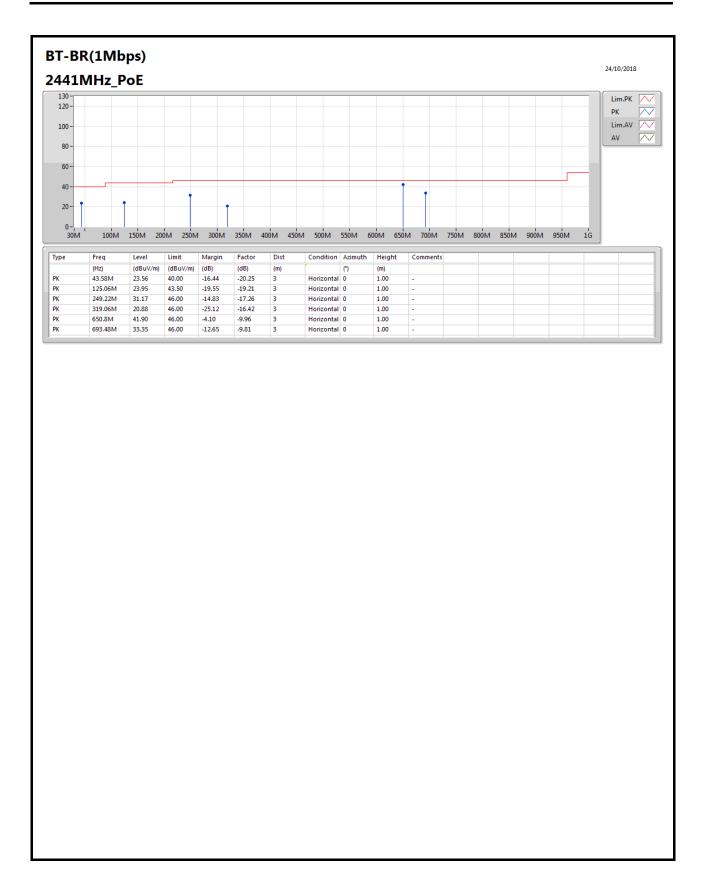
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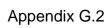


Appendix G.2

Summary

| Mode | Result | Туре | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments |
|---------------|--------|------|---------|----------|----------|--------|--------|------|------------|---------|--------|----------|
| | | | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | |
| 2.4-2.4835GHz | - | - | - | - | - | - | - | - | - | - | - | - |
| BT-BR(1Mbps) | Pass | AV | 2.4898G | 43.93 | 54.00 | -10.07 | 31.13 | 3 | Vertical | 143 | 1.55 | - |
| BT-EDR(2Mbps) | Pass | AV | 2.4894G | 44.09 | 54.00 | -9.91 | 31.13 | 3 | Vertical | 144 | 1.55 | - |
| BT-EDR(3Mbps) | Pass | AV | 2.4974G | 44.04 | 54.00 | -9.96 | 31.16 | 3 | Horizontal | 49 | 1.38 | - |

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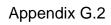


Result

| Mode | Result | Туре | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments |
|---------------|--------|------|----------|----------|----------|--------|--------|------|------------|---------|--------|----------|
| | | | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | ļ |
| BT-BR(1Mbps) | - | - | - | - | - | - | - | - | - | - | - | - |
| 2402MHz | Pass | AV | 2.3616G | 43.24 | 54.00 | -10.76 | 30.67 | 3 | Vertical | 141 | 1.34 | - |
| 2402MHz | Pass | AV | 2.402G | 99.72 | Inf | -Inf | 30.82 | 3 | Vertical | 141 | 1.34 | - |
| 2402MHz | Pass | PK | 2.3688G | 56.39 | 74.00 | -17.61 | 30.70 | 3 | Vertical | 141 | 1.34 | - |
| 2402MHz | Pass | PK | 2.4018G | 100.17 | Inf | -Inf | 30.82 | 3 | Vertical | 141 | 1.34 | - |
| 2402MHz | Pass | AV | 2.3842G | 43.25 | 54.00 | -10.75 | 30.76 | 3 | Horizontal | 336 | 2.49 | - |
| 2402MHz | Pass | AV | 2.402G | 100.45 | Inf | -Inf | 30.82 | 3 | Horizontal | 336 | 2.49 | - |
| 2402MHz | Pass | PK | 2.36G | 55.75 | 74.00 | -18.25 | 30.67 | 3 | Horizontal | 336 | 2.49 | - |
| 2402MHz | Pass | PK | 2.4018G | 100.88 | Inf | -Inf | 30.82 | 3 | Horizontal | 336 | 2.49 | - |
| 2402MHz | Pass | AV | 4.80198G | 30.76 | 54.00 | -23.24 | 2.07 | 3 | Vertical | 122 | 1.85 | - |
| 2402MHz | Pass | PK | 4.80229G | 43.56 | 74.00 | -30.44 | 2.07 | 3 | Vertical | 122 | 1.85 | - |
| 2402MHz | Pass | AV | 4.80156G | 30.78 | 54.00 | -23.22 | 2.07 | 3 | Horizontal | 1 | 1.18 | - |
| 2402MHz | Pass | PK | 4.80312G | 43.13 | 74.00 | -30.87 | 2.07 | 3 | Horizontal | 1 | 1.18 | - |
| 2441MHz | Pass | AV | 2.3898G | 43.19 | 54.00 | -10.81 | 30.77 | 3 | Vertical | 143 | 1.55 | - |
| 2441MHz | Pass | AV | 2.441G | 96.27 | Inf | -Inf | 30.95 | 3 | Vertical | 143 | 1.55 | - |
| 2441MHz | Pass | AV | 2.4898G | 43.93 | 54.00 | -10.07 | 31.13 | 3 | Vertical | 143 | 1.55 | - |
| 2441MHz | Pass | PK | 2.3742G | 55.77 | 74.00 | -18.23 | 30.72 | 3 | Vertical | 143 | 1.55 | - |
| 2441MHz | Pass | PK | 2.441G | 96.69 | Inf | -Inf | 30.95 | 3 | Vertical | 143 | 1.55 | - |
| 2441MHz | Pass | PK | 2.4918G | 57.01 | 74.00 | -16.99 | 31.14 | 3 | Vertical | 143 | 1.55 | - |
| 2441MHz | Pass | AV | 2.3882G | 43.17 | 54.00 | -10.83 | 30.77 | 3 | Horizontal | 47 | 1.78 | - |
| 2441MHz | Pass | AV | 2.441G | 100.75 | Inf | -Inf | 30.95 | 3 | Horizontal | 47 | 1.78 | - |
| 2441MHz | Pass | AV | 2.4874G | 43.85 | 54.00 | -10.15 | 31.12 | 3 | Horizontal | 47 | 1.78 | - |
| 2441MHz | Pass | PK | 2.3522G | 55.82 | 74.00 | -18.18 | 30.65 | 3 | Horizontal | 47 | 1.78 | - |
| 2441MHz | Pass | PK | 2.441G | 101.49 | Inf | -Inf | 30.95 | 3 | Horizontal | 47 | 1.78 | - |
| 2441MHz | Pass | PK | 2.4918G | 56.48 | 74.00 | -17.52 | 31.14 | 3 | Horizontal | 47 | 1.78 | - |
| 2441MHz | Pass | AV | 4.88188G | 32.52 | 54.00 | -21.48 | 2.27 | 3 | Vertical | 3 | 2.52 | - |
| 2441MHz | Pass | PK | 4.8814G | 43.53 | 74.00 | -30.47 | 2.27 | 3 | Vertical | 3 | 2.52 | - |
| 2441MHz | Pass | AV | 4.88206G | 35.45 | 54.00 | -18.55 | 2.27 | 3 | Horizontal | 10 | 2.32 | - |
| 2441MHz | Pass | PK | 4.88234G | 44.70 | 74.00 | -29.30 | 2.27 | 3 | Horizontal | 10 | 2.32 | - |
| 2480MHz | Pass | AV | 2.48G | 98.17 | Inf | -Inf | 31.09 | 3 | Vertical | 94 | 1.99 | - |
| 2480MHz | Pass | AV | 2.4896G | 43.81 | 54.00 | -10.19 | 31.13 | 3 | Vertical | 94 | 1.99 | - |
| 2480MHz | Pass | PK | 2.4798G | 98.56 | Inf | -Inf | 31.09 | 3 | Vertical | 94 | 1.99 | - |
| 2480MHz | Pass | PK | 2.4842G | 56.25 | 74.00 | -17.75 | 31.12 | 3 | Vertical | 94 | 1.99 | - |
| 2480MHz | Pass | AV | 2.48G | 102.55 | Inf | -Inf | 31.09 | 3 | Horizontal | 47 | 1.38 | - |
| 2480MHz | Pass | AV | 2.4888G | 43.90 | 54.00 | -10.10 | 31.13 | 3 | Horizontal | 47 | 1.38 | - |
| 2480MHz | Pass | PK | 2.4798G | 102.93 | Inf | -Inf | 31.09 | 3 | Horizontal | 47 | 1.38 | - |
| 2480MHz | Pass | PK | 2.4852G | 56.48 | 74.00 | -17.52 | 31.12 | 3 | Horizontal | 47 | 1.38 | - |
| 2480MHz | Pass | AV | 4.96195G | 30.29 | 54.00 | -23.71 | 2.47 | 3 | Vertical | 323 | 1.23 | - |
| 2480MHz | Pass | PK | 4.9595G | 43.69 | 74.00 | -30.31 | 2.47 | 3 | Vertical | 323 | 1.23 | - |
| 2480MHz | Pass | AV | 4.95984G | 30.53 | 54.00 | -23.47 | 2.47 | 3 | Horizontal | 290 | 1.54 | - |
| 2480MHz | Pass | PK | 4.96087G | 43.51 | 74.00 | -30.49 | 2.47 | 3 | Horizontal | 290 | 1.54 | - |
| BT-EDR(2Mbps) | - | - | - | - | - | | - | - | - | - | - | - |
| 2402MHz | Pass | AV | 2.3786G | 43.26 | 54.00 | -10.74 | 30.74 | 3 | Vertical | 221 | 1.70 | - |
| 2402MHz | Pass | AV | 2.402G | 95.28 | Inf | -Inf | 30.82 | 3 | Vertical | 221 | 1.70 | - |
| 2402MHz | Pass | PK | 2.3772G | 56.23 | 74.00 | -17.77 | 30.73 | 3 | Vertical | 221 | 1.70 | - |
| 2402MHz | Pass | PK | 2.4018G | 98.81 | Inf | -Inf | 30.82 | 3 | Vertical | 221 | 1.70 | - |
| 2402MHz | Pass | AV | 2.377G | 43.31 | 54.00 | -10.69 | 30.73 | 3 | Horizontal | 336 | 2.42 | - |
| 2402MHz | Pass | AV | 2.402G | 96.14 | Inf | -Inf | 30.82 | 3 | Horizontal | 336 | 2.42 | - |

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| | ı | ı | ı | ı | ı | | ı | ı | | | | ı |
|--------------------|--------------|-------|--------------------|----------|--------------|----------------|----------------|------|----------------------|---------|--------|----------|
| Mode | Result | Туре | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments |
| | | | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | |
| 2402MHz | Pass | PK | 2.3846G | 56.15 | 74.00 | -17.85 | 30.76 | 3 | Horizontal | 336 | 2.42 | - |
| 2402MHz | Pass | PK | 2.4018G | 99.62 | Inf | -Inf | 30.82 | 3 | Horizontal | 336 | 2.42 | - |
| 2441MHz | Pass | AV | 2.3558G | 43.11 | 54.00 | -10.89 | 30.66 | 3 | Vertical | 144 | 1.55 | - |
| 2441MHz | Pass | AV | 2.441G | 92.44 | Inf | -Inf | 30.95 | 3 | Vertical | 144 | 1.55 | - |
| 2441MHz | Pass | AV | 2.4894G | 44.09 | 54.00 | -9.91 | 31.13 | 3 | Vertical | 144 | 1.55 | - |
| 2441MHz | Pass | PK | 2.3878G | 55.73 | 74.00 | -18.27 | 30.77 | 3 | Vertical | 144 | 1.55 | - |
| 2441MHz | Pass | PK | 2.441G | 95.86 | Inf | -Inf | 30.95 | 3 | Vertical | 144 | 1.55 | - |
| 2441MHz | Pass | PK | 2.499G | 55.91 | 74.00 | -18.09 | 31.17 | 3 | Vertical | 144 | 1.55 | - |
| 2441MHz | Pass | AV | 2.3866G | 43.18 | 54.00 | -10.82 | 30.76 | 3 | Horizontal | 47 | 1.80 | - |
| 2441MHz | Pass | AV | 2.441G | 97.32 | Inf | -Inf | 30.95 | 3 | Horizontal | 47 | 1.80 | - |
| 2441MHz | Pass | AV | 2.4866G | 43.90 | 54.00 | -10.10 | 31.12 | 3 | Horizontal | 47 | 1.80 | - |
| 2441MHz | Pass | PK | 2.3698G | 55.50 | 74.00 | -18.50 | 30.71 | 3 | Horizontal | 47 | 1.80 | - |
| 2441MHz | Pass | PK | 2.441G | 100.73 | Inf | -Inf | 30.95 | 3 | Horizontal | 47 | 1.80 | - |
| 2441MHz | Pass | PK | 2.4986G | 56.45 | 74.00 | -17.55 | 31.17 | 3 | Horizontal | 47 | 1.80 | - |
| 2480MHz | Pass | AV | 2.48G | 94.02 | Inf | -Inf | 31.09 | 3 | Vertical | 86 | 1.33 | - |
| 2480MHz | Pass | AV | 2.4884G | 43.84 | 54.00 | -10.16 | 31.13 | 3 | Vertical | 86 | 1.33 | - |
| 2480MHz | Pass | PK | 2.4798G | 97.48 | Inf | -Inf | 31.09 | 3 | Vertical | 86 | 1.33 | - |
| 2480MHz | Pass | PK | 2.4918G | 56.15 | 74.00 | -17.85 | 31.14 | 3 | Vertical | 86 | 1.33 | - |
| 2480MHz | Pass | AV | 2.48G | 98.35 | Inf | -Inf | 31.09 | 3 | Horizontal | 48 | 1.37 | - |
| 2480MHz | Pass | AV | 2.4984G | 44.04 | 54.00 | -9.96 | 31.17 | 3 | Horizontal | 48 | 1.37 | - |
| 2480MHz | Pass | PK | 2.48G | 101.83 | Inf | -Inf | 31.09 | 3 | Horizontal | 48 | 1.37 | - |
| 2480MHz | Pass | PK | 2.4946G | 55.96 | 74.00 | -18.04 | 31.15 | 3 | Horizontal | 48 | 1.37 | - |
| BT-EDR(3Mbps) | - | - | - | - | - | - | - | - | - | - | - | - |
| 2402MHz | Pass | AV | 2.3868G | 43.33 | 54.00 | -10.67 | 30.76 | 3 | Vertical | 220 | 1.70 | - |
| 2402MHz | Pass | AV | 2.402G | 95.13 | Inf | -Inf | 30.82 | 3 | Vertical | 220 | 1.70 | - |
| 2402MHz | Pass | PK | 2.388G | 56.21 | 74.00 | -17.79 | 30.77 | 3 | Vertical | 220 | 1.70 | - |
| 2402MHz | Pass | PK | 2.4018G | 98.72 | Inf | -Inf | 30.82 | 3 | Vertical | 220 | 1.70 | - |
| 2402MHz | Pass | AV | 2.3828G | 43.12 | 54.00 | -10.88 | 30.75 | 3 | Horizontal | 337 | 2.41 | _ |
| 2402MHz | Pass | AV | 2.402G | 95.91 | Inf | -Inf | 30.82 | 3 | Horizontal | 337 | 2.41 | _ |
| 2402MHz | Pass | PK | 2.3882G | 56.14 | 74.00 | -17.86 | 30.77 | 3 | Horizontal | 337 | 2.41 | _ |
| 2402MHz | Pass | PK | 2.402G | 99.49 | Inf | -Inf | 30.82 | 3 | Horizontal | 337 | 2.41 | _ |
| 2441MHz | Pass | AV | 2.389G | 43.12 | 54.00 | -10.88 | 30.77 | 3 | Vertical | 143 | 1.54 | _ |
| 2441MHz | Pass | AV | 2.441G | 91.76 | Inf | -Inf | 30.95 | 3 | Vertical | 143 | 1.54 | _ |
| 2441MHz | Pass | AV | 2.4858G | 43.93 | 54.00 | -10.07 | 31.12 | 3 | Vertical | 143 | 1.54 | |
| | | PK | 2.3818G | 56.26 | 74.00 | | | 3 | | 143 | | - |
| 2441MHz 2441MHz | Pass Pass | PK | 2.3616G 2.441G | 95.27 | 74.00 Inf | -17.74 -Inf | 30.75 30.95 | 3 | Vertical Vertical | 143 | 1.54 | |
| 2441MHz | Pass | PK | 2.441G 2.4998G | 56.57 | 74.00 | -17.43 | 31.17 | 3 | Vertical | 143 | 1.54 | |
| 2441MHz | Pass | AV | 2.4996G 2.3822G | 43.21 | 54.00 | -17.43 | 30.75 | 3 | Horizontal | 52 | 1.78 | - |
| 2441MHz | | | | | | | | | | | | - |
| | Pass | AV AV | 2.441G | 97.17 | Inf | -Inf | 30.95 | 3 | Horizontal | 52 | 1.78 | - |
| 2441MHz | Pass | AV | 2.4902G | 43.91 | 54.00 | -10.09 | 31.13 | 3 | Horizontal | 52 | 1.78 | - |
| 2441MHz | Pass | PK | 2.3874G | 55.87 | 74.00 | -18.13 | 30.76 | 3 | Horizontal | 52 | 1.78 | - |
| 2441MHz | Pass | PK | 2.441G | 100.70 | Inf | -Inf | 30.95 | 3 | Horizontal | 52 | 1.78 | - |
| 2441MHz | Pass | PK | 2.4934G | 56.29 | 74.00 | -17.71 | 31.14 | 3 | Horizontal | 52 | 1.78 | - |
| 2480MHz | Pass | AV | 2.48G | 93.23 | Inf | -Inf | 31.09 | 3 | Vertical | 92 | 1.30 | - |
| 2480MHz | Pass | AV | 2.4856G | 43.81 | 54.00 | -10.19 | 31.12 | 3 | Vertical | 92 | 1.30 | - |
| 2480MHz | Pass | PK | 2.48G | 96.81 | Inf | -Inf | 31.09 | 3 | Vertical | 92 | 1.30 | - |
| 2480MHz | Pass | PK | 2.496G | 56.54 | 74.00 | -17.46 | 31.16 | 3 | Vertical | 92 | 1.30 | - |
| 2480MHz | Pass | AV | 2.48G | 98.68 | Inf | -Inf | 31.09 | 3 | Horizontal | 49 | 1.38 | - |
| 2480MHz | Pass | AV | 2.4974G | 44.04 | 54.00 | -9.96 | 31.16 | 3 | Horizontal | 49 | 1.38 | - |

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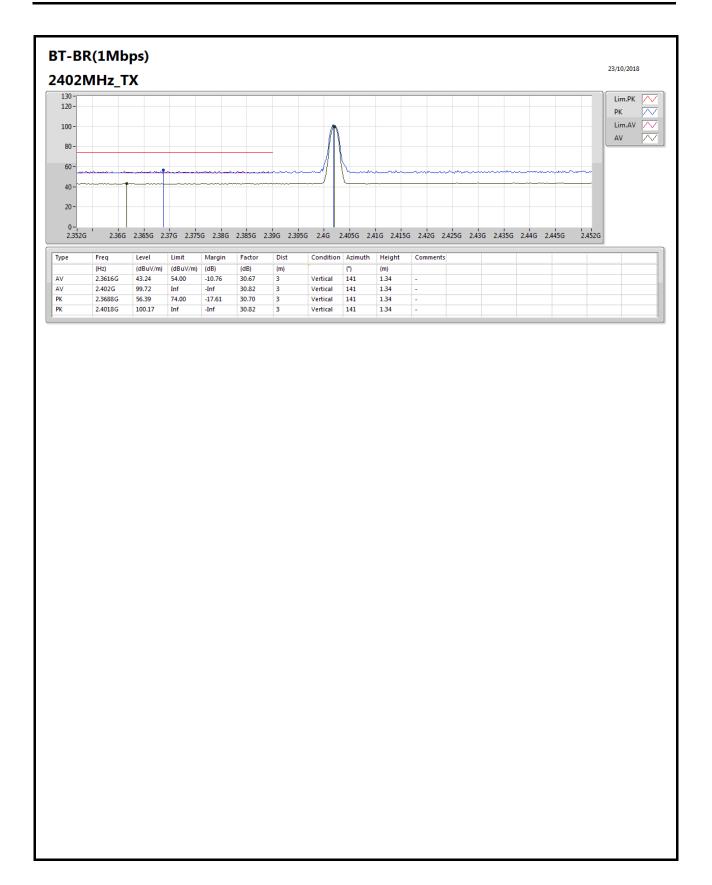


Appendix G.2

| Mode | Result | Туре | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height | Comments |
|---------|--------|------|---------|----------|----------|--------|--------|------|------------|---------|--------|----------|
| | | | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) | |
| 2480MHz | Pass | PK | 2.48G | 102.26 | Inf | -Inf | 31.09 | 3 | Horizontal | 49 | 1.38 | - |
| 2480MHz | Pass | PK | 2.4854G | 56.68 | 74.00 | -17.32 | 31.12 | 3 | Horizontal | 49 | 1.38 | - |

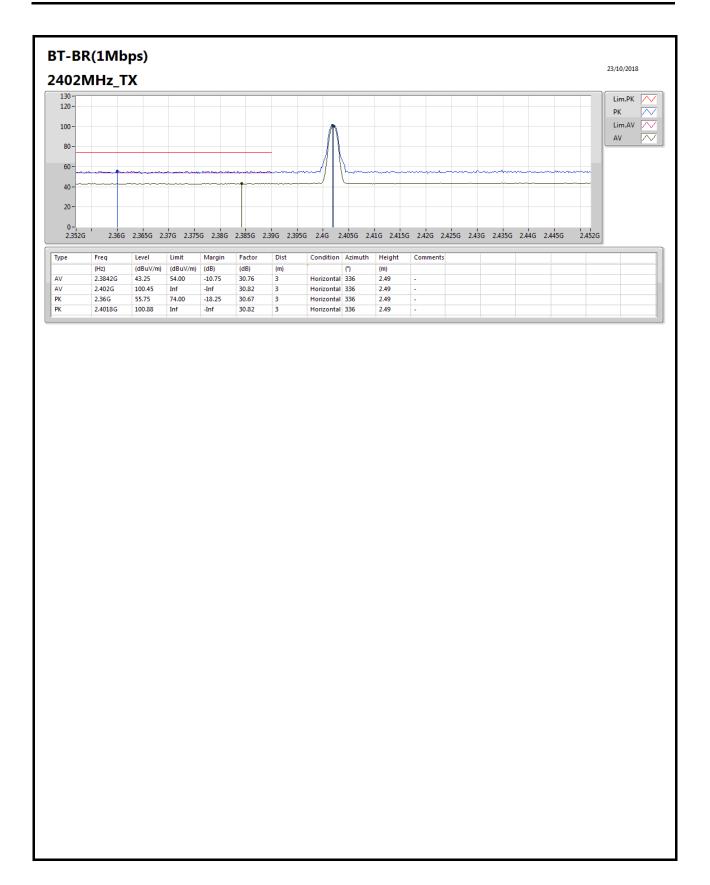
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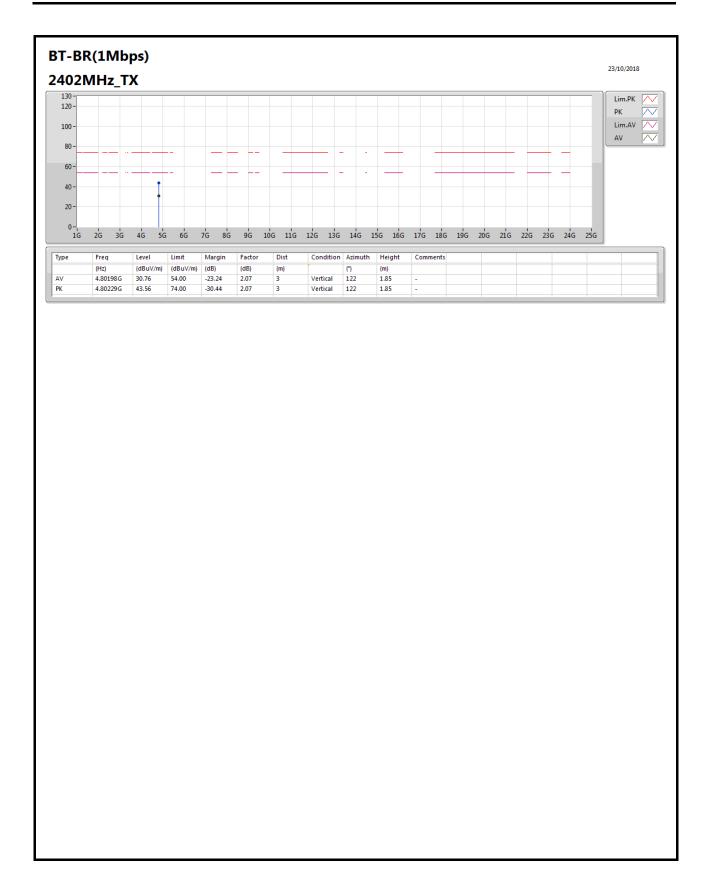
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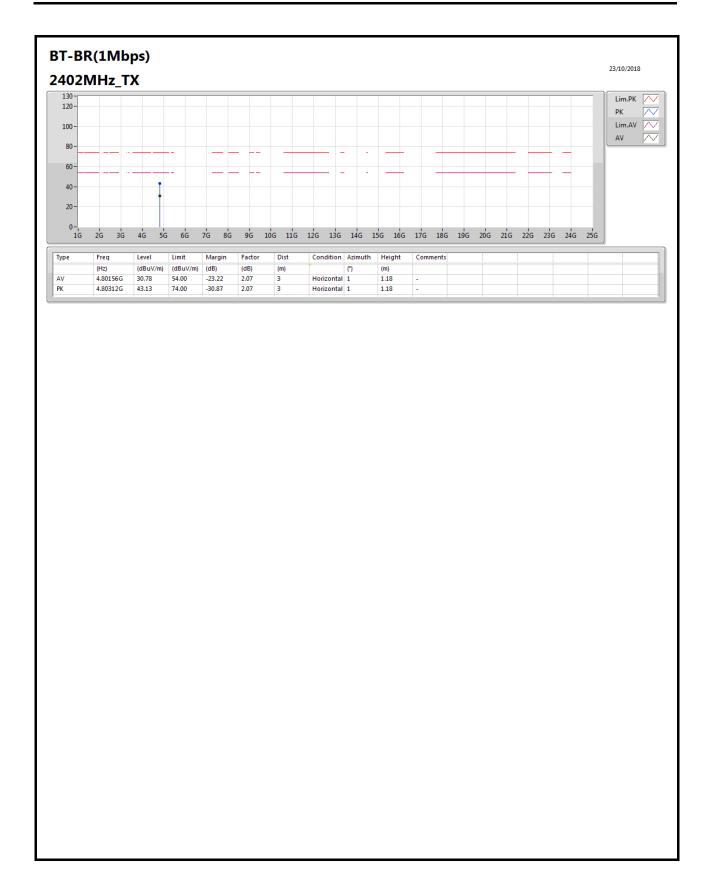
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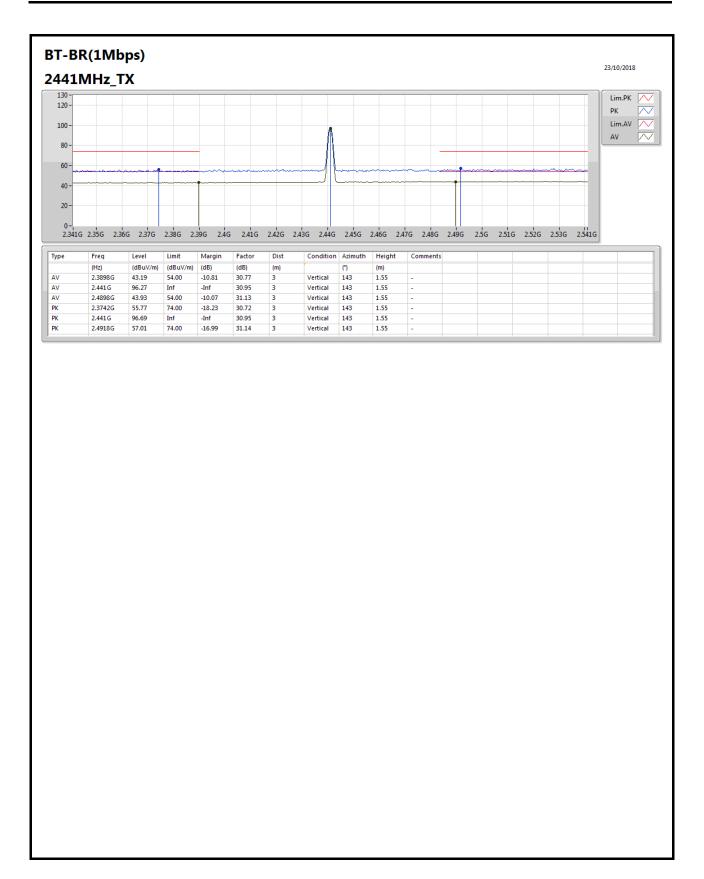
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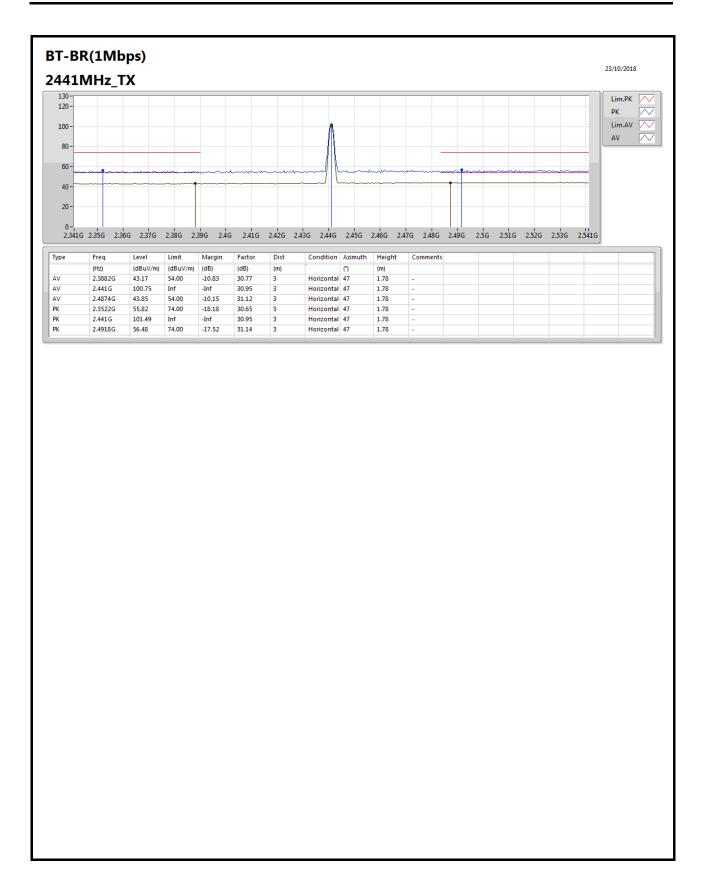


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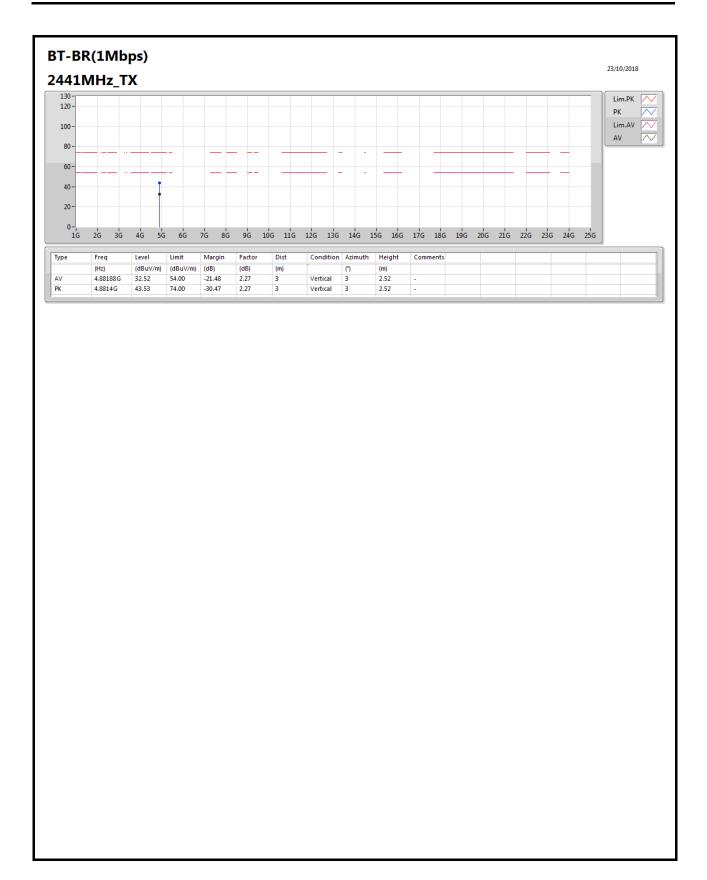






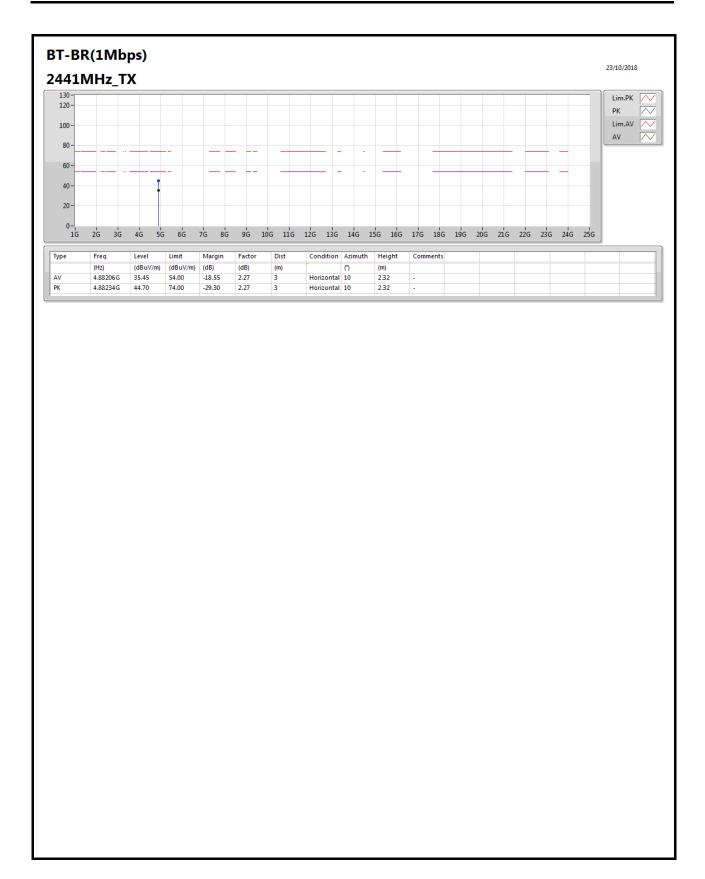
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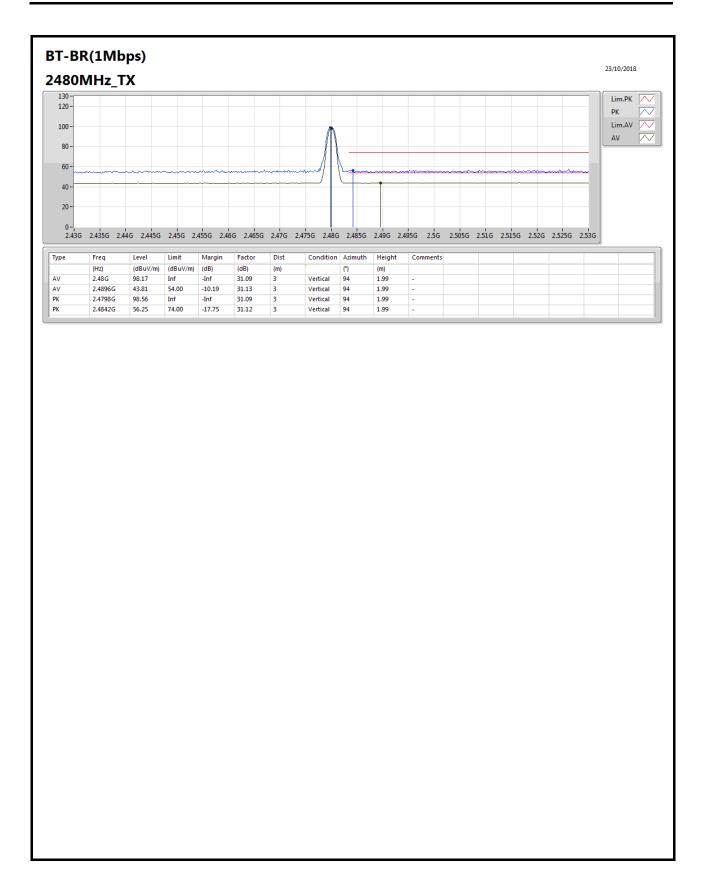
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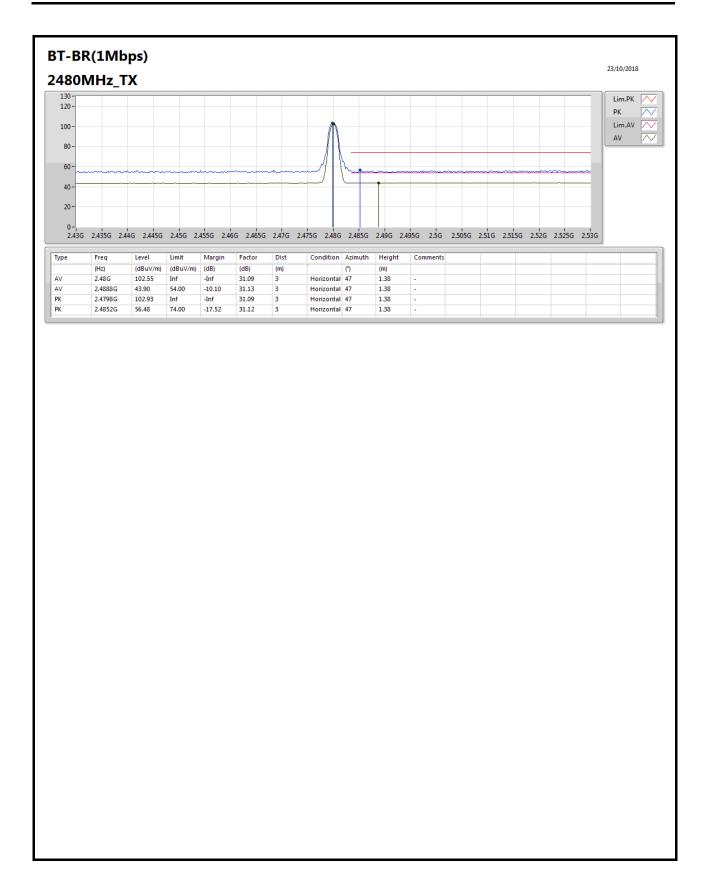
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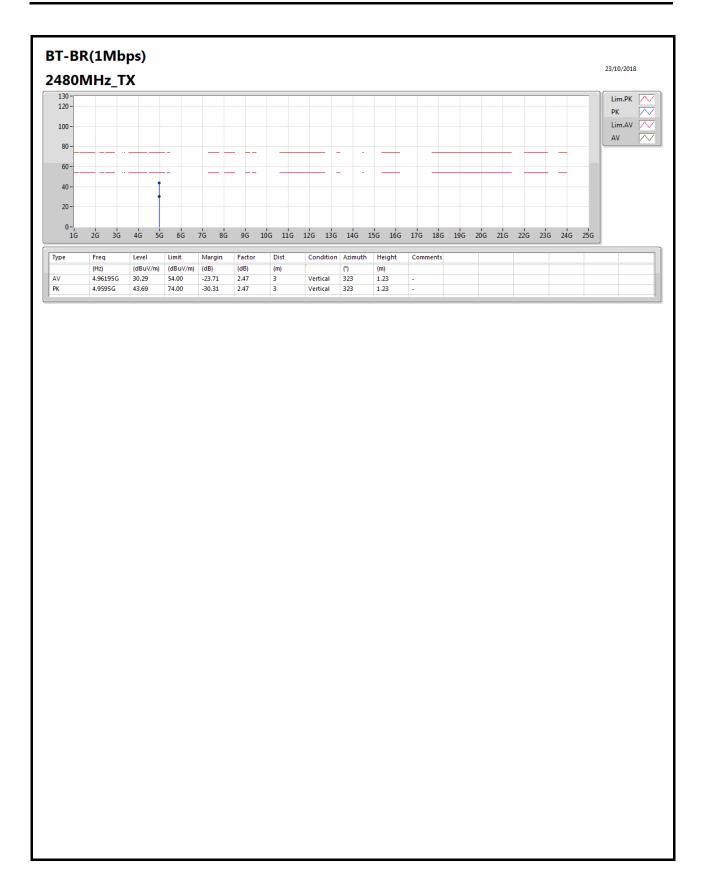


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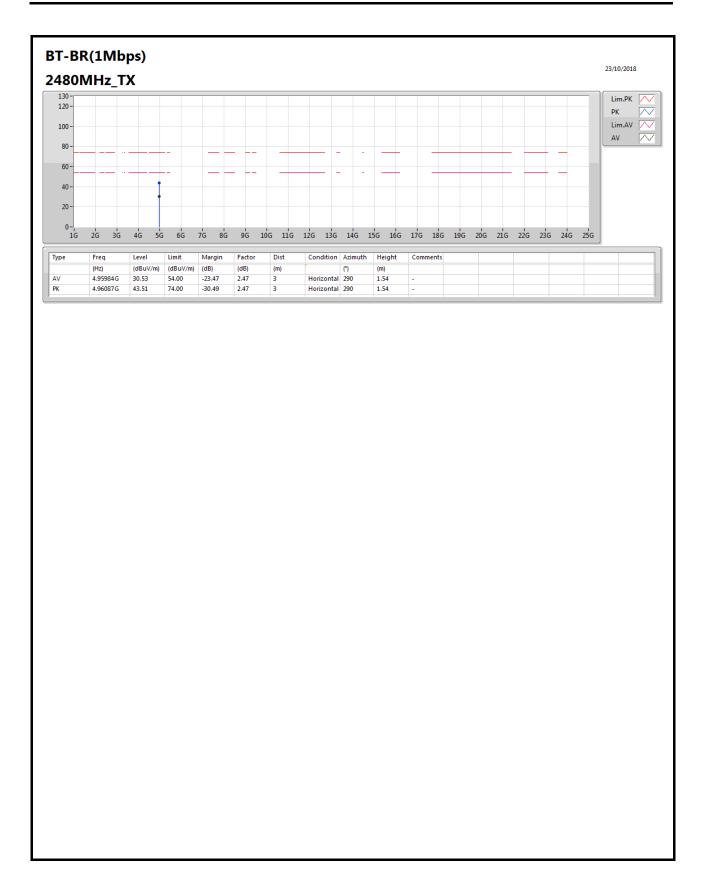






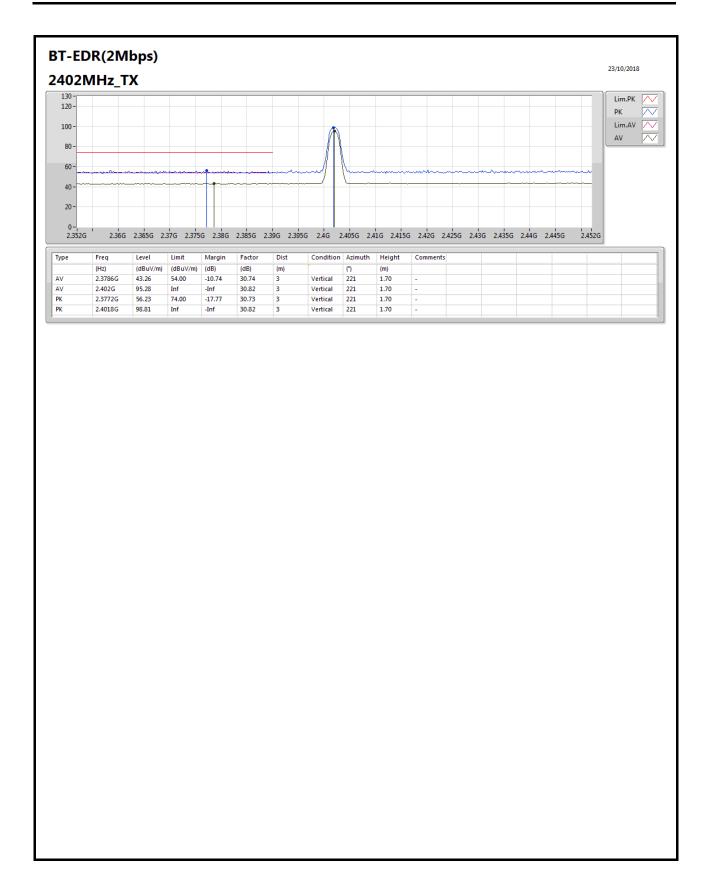
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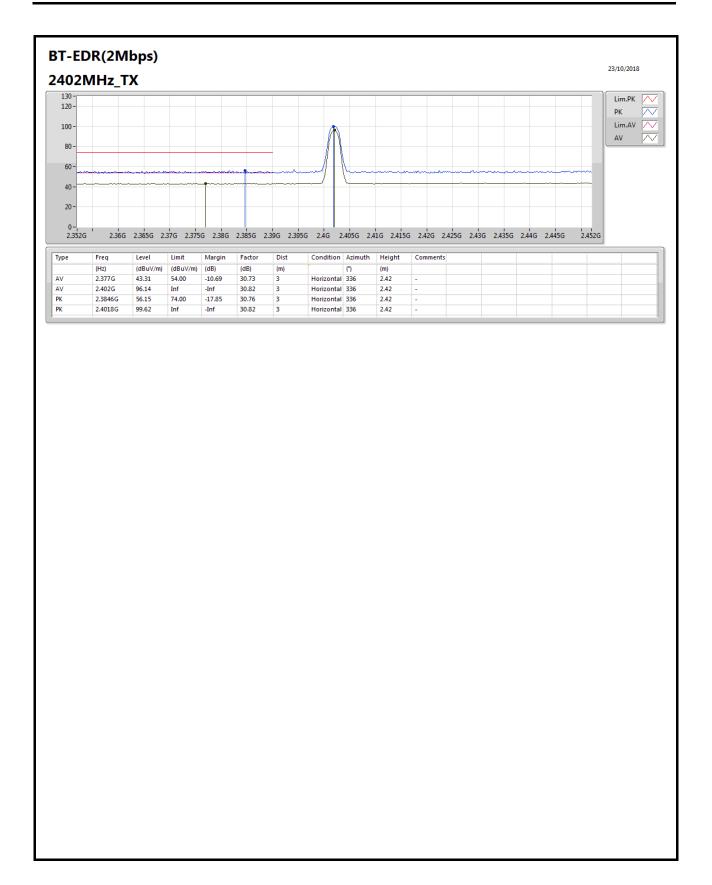
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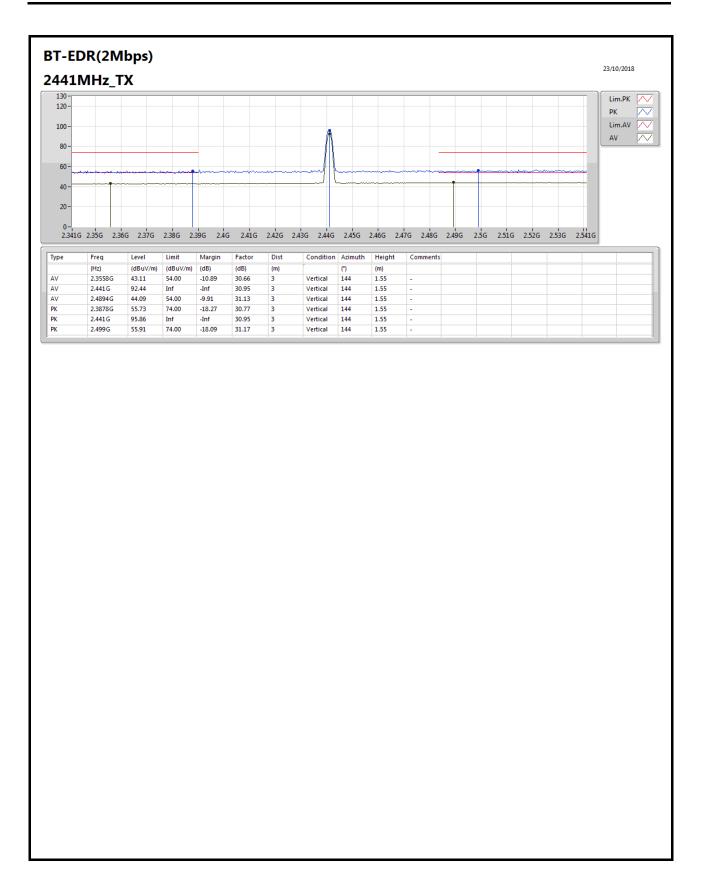
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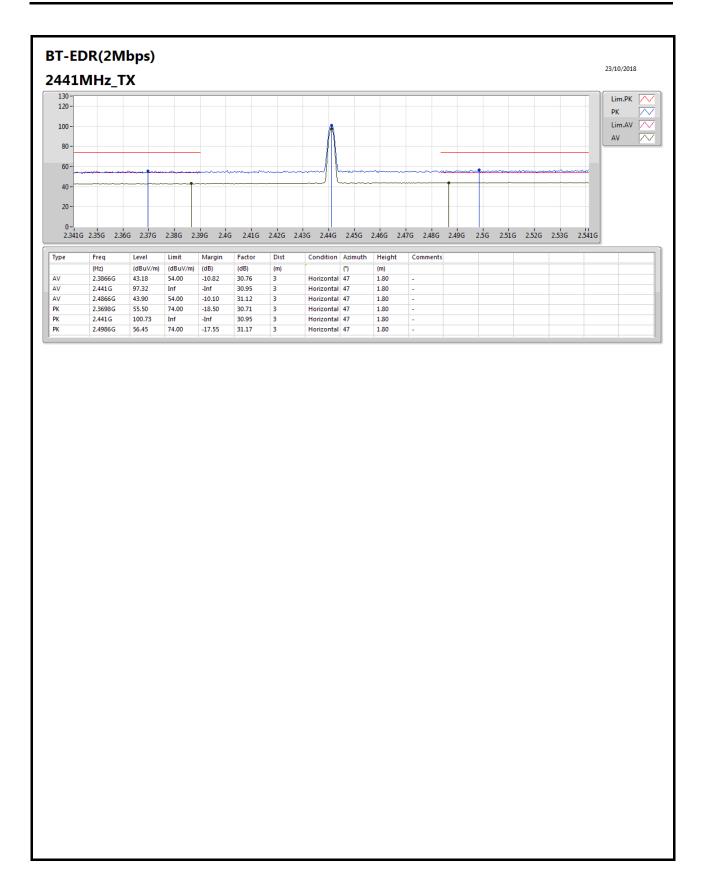
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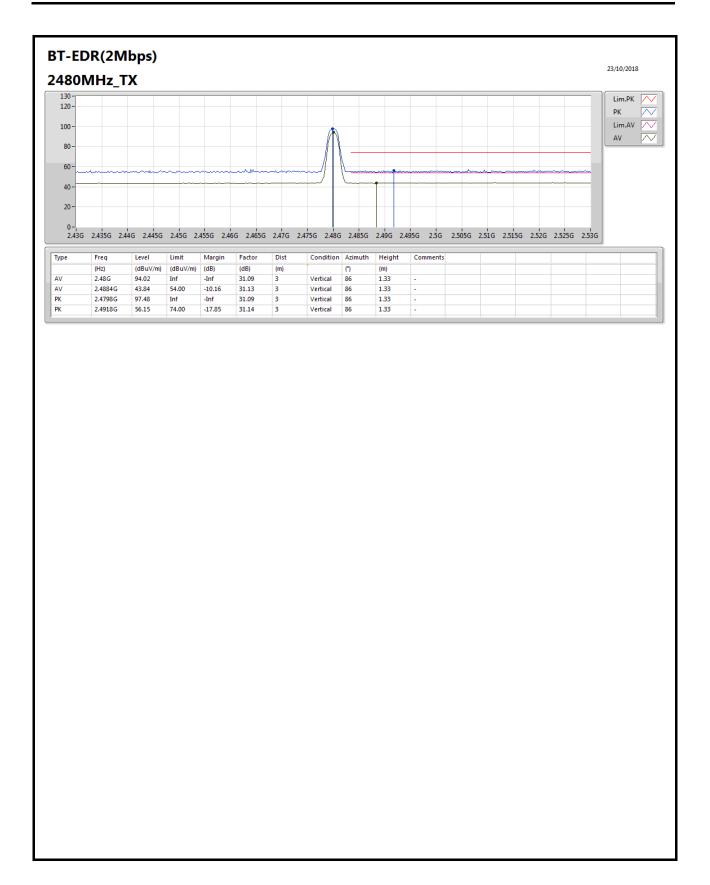
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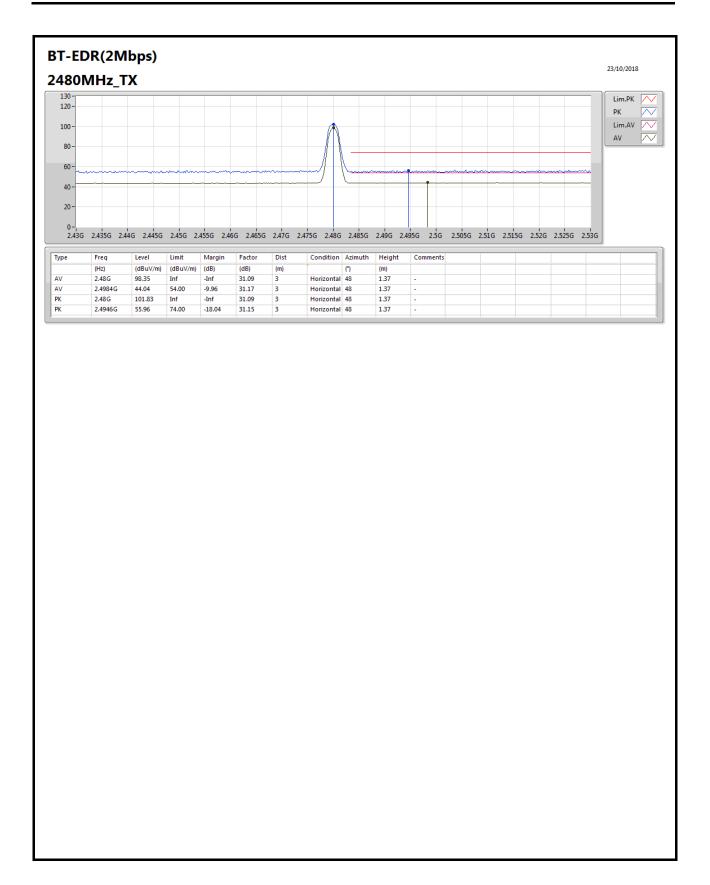
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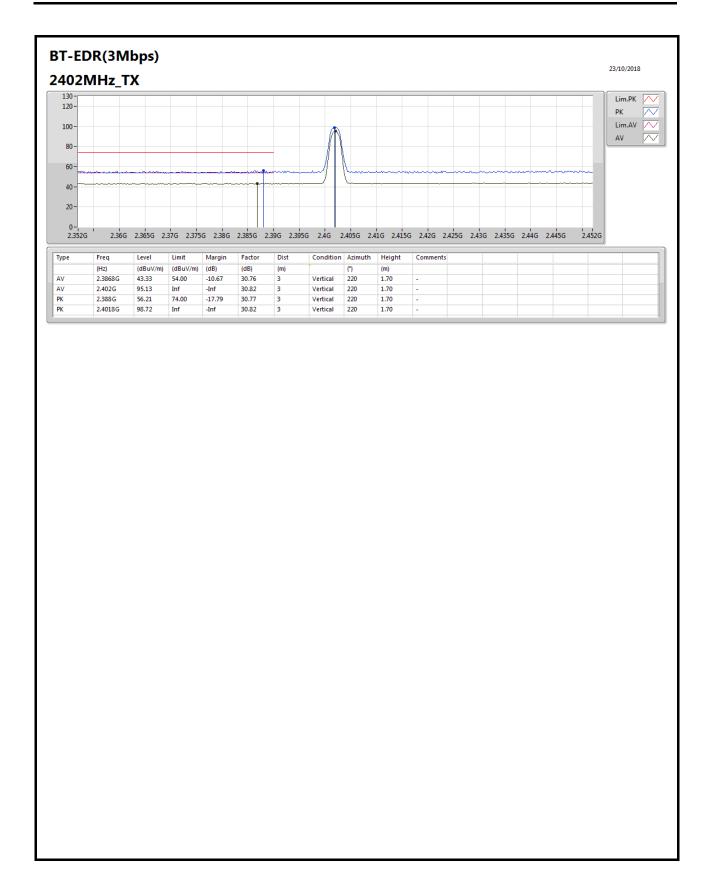
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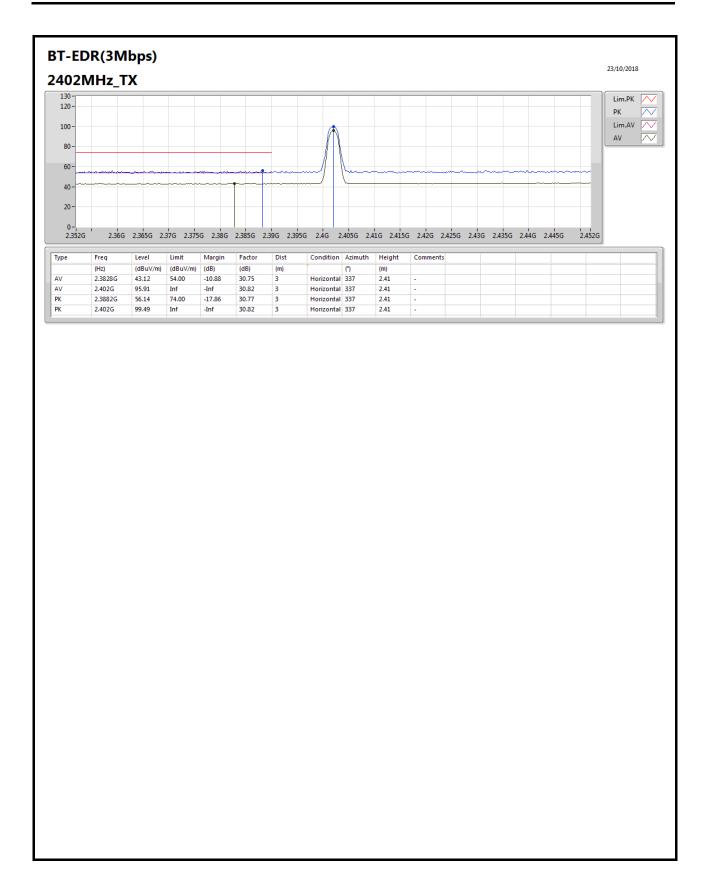
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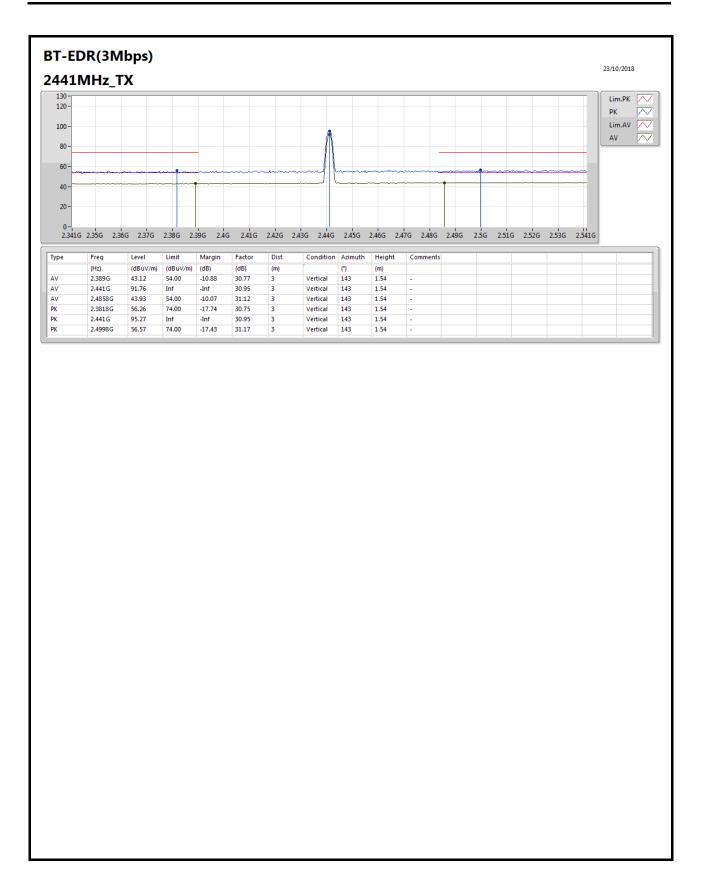
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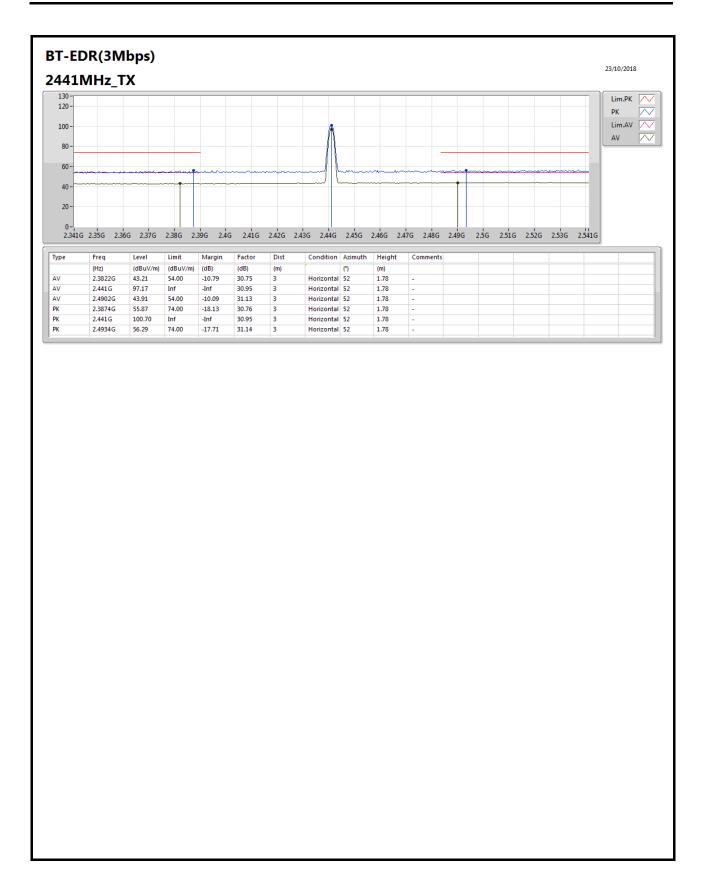
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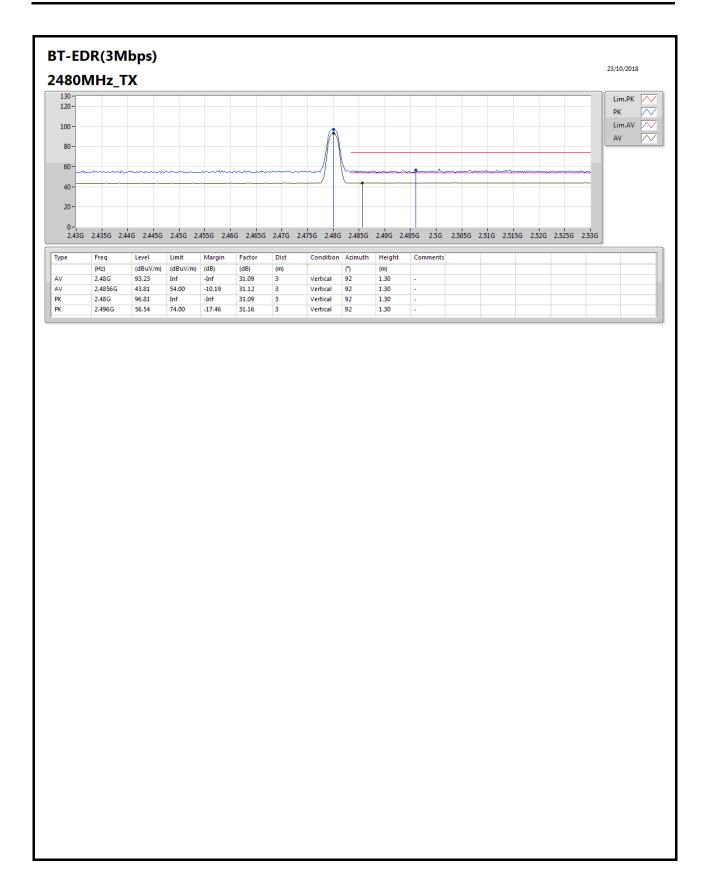
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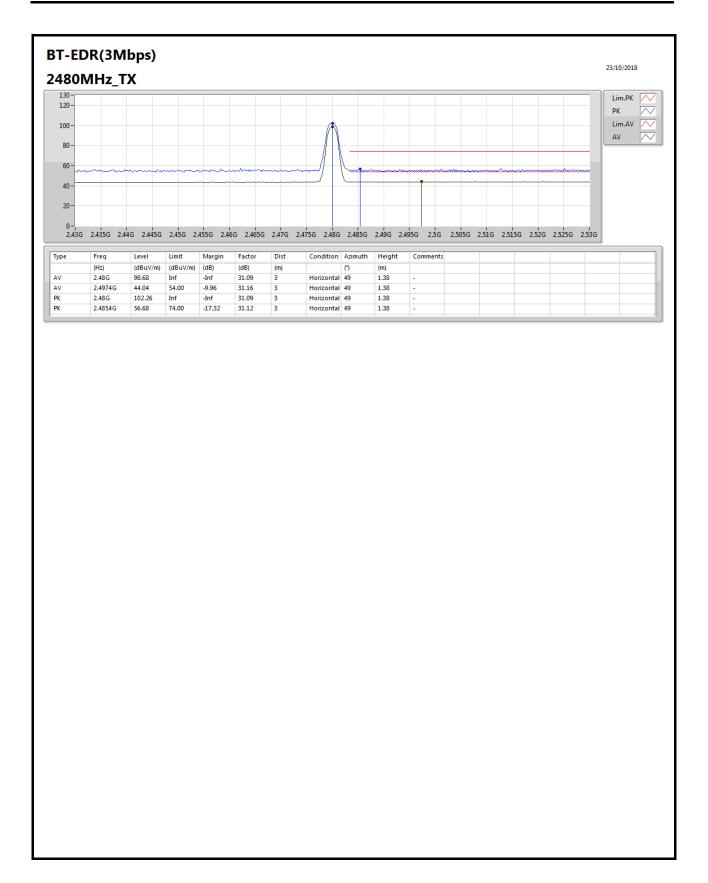
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Radiated Emission Co-location

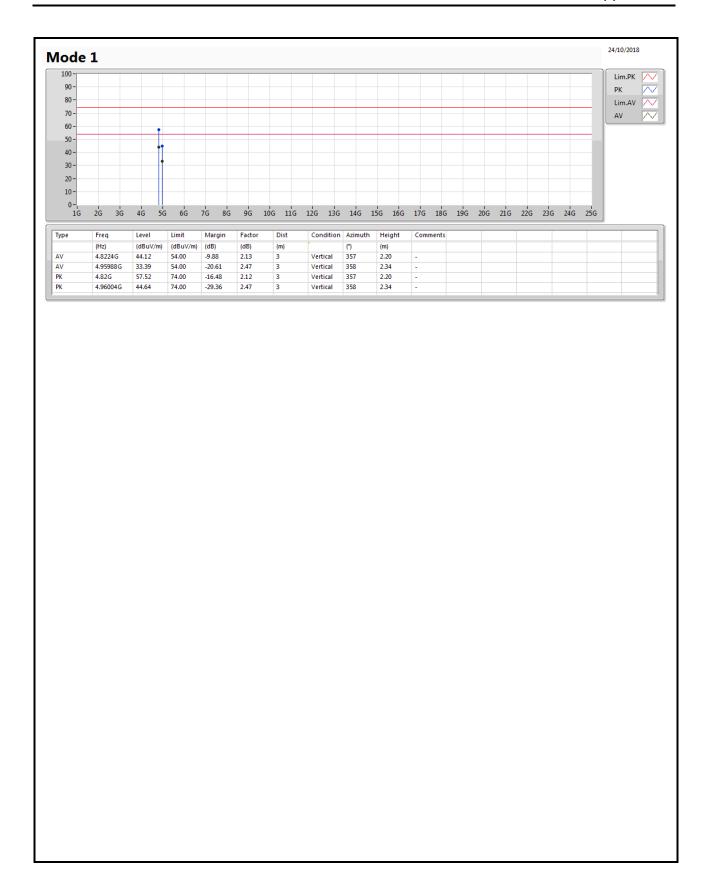
Appendix H

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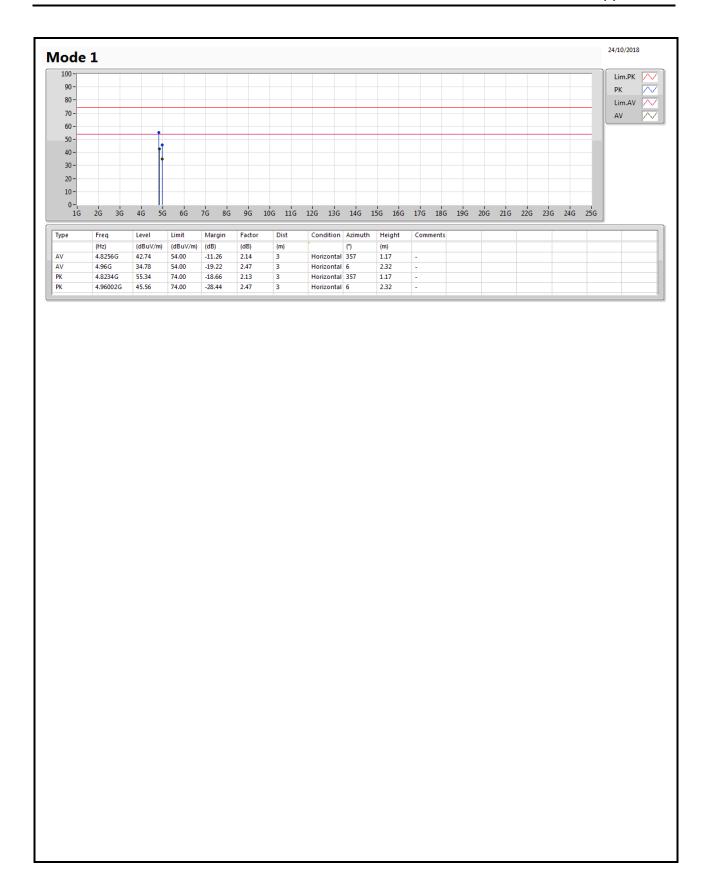
Summary

| Mode | Result | Туре | Freq | Level | Limit | Margin | Factor | Dist | Condition | Azimuth | Height |
|--------|--------|------|-----------|----------|----------|--------|--------|------|-----------|---------|--------|
| | | | (Hz) | (dBuV/m) | (dBuV/m) | (dB) | (dB) | (m) | | (°) | (m) |
| Mode 1 | Pass | AV | 4.8224G | 44.12 | 54.00 | -9.88 | 2.13 | 3 | Vertical | 357 | 2.20 |
| Mode 2 | Pass | AV | 10.35995G | 47.61 | 54.00 | -6.39 | 12.63 | 3 | Vertical | 17 | 2.44 |

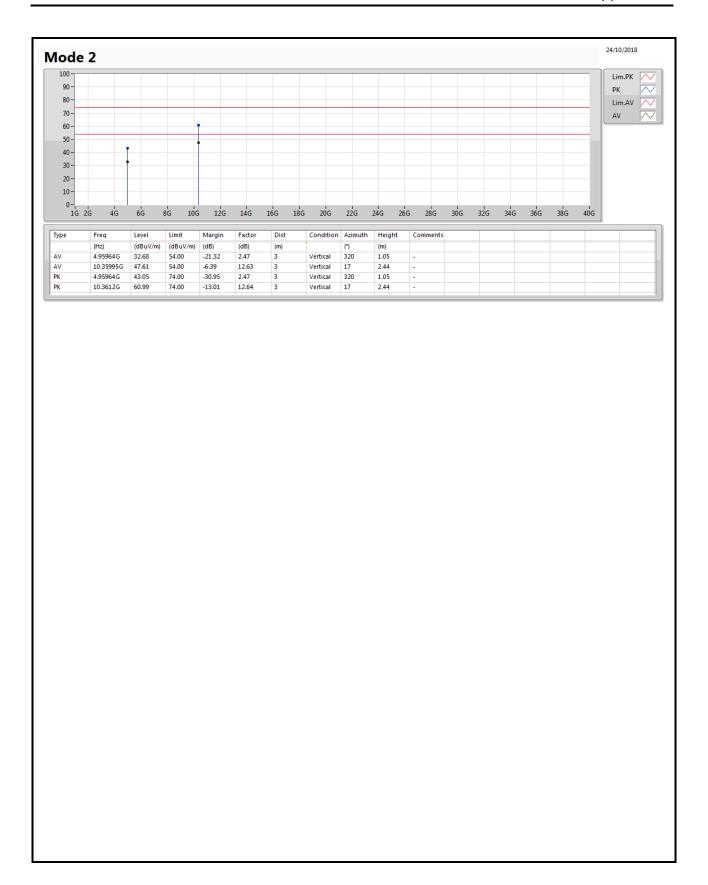
SPORTON INTERNATIONAL INC. Page No. : H1 of H5



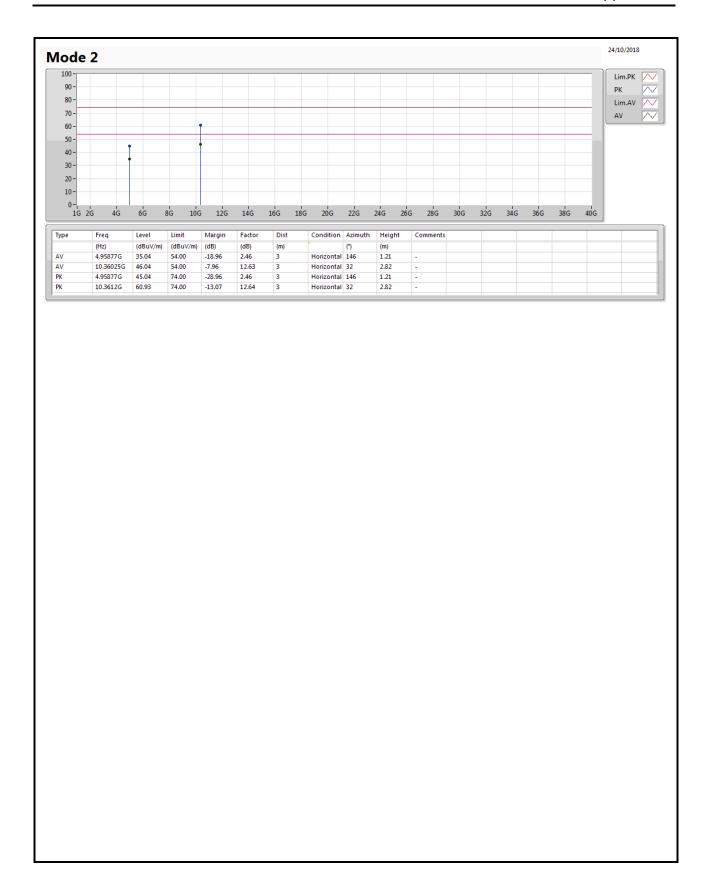
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