



FCC RADIO TEST REPORT

FCC ID : Q87- 03458
Equipment : Dual-Band 802.11ax Wireless Router
Brand Name : LINKSYS
Model Name : MR9600, EA9350
Applicant : Linksys LLC
121 Theory Drive, Irvine, CA 92617, USA
Standard : 47 CFR FCC Part 15.247

The product was received on Apr. 30, 2019, and testing was started from Apr. 30, 2019 and completed on Aug. 28, 2019. 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: Cliff Chang

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



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Summary of Test Result

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

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:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen

Report Producer: Sandy Chuang



1 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.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2, 3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

**1.1.2 Antenna Information**

Ant.	Port		Brand	Model Name	Antenna Type	Connector	Gain (dBi)		
	2.4GHz	5GHz					2.4GHz	5GHz	Bluetooth
1	1	2	ARISTOTLE	RFA-52-F100-2-L	Dipole	I-PEX	2.88	2.05	-
2	2	3	ARISTOTLE	RFA-52-F100-3-R	Dipole	I-PEX	2.23	2.12	-
3	3	1	ARISTOTLE	RFA-52-F100-1L	Dipole	I-PEX	2.27	2.28	-
4	4	4	ARISTOTLE	RFA-52-F100-4-R	Dipole	I-PEX	2.00	2.08	-
5	1	-	N/A	N/A	Printed	N/A	-	-	3.57

Note 1: The above information was declared by manufacturer.

Note 2: The product has beamforming function for n/VHT/ax in 2.4GHz and the gain is 5.26dBi and n/ac/ax in 5GHz and the gain is 4.78dBi.

For 2.4GHz function:**For IEEE 802.11b/g/n/VHT/ax (4TX/4RX):**

Port 1, Port 2, Pot 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Pot 3 and Port 4 could transmit/receive simultaneously.

For 5GHz function:**For IEEE 802.11a/n/ac/ax (4TX/4RX):**

Port 1, Port 2, Pot 3 and Port 4 can be used as transmitting/receiving antenna.

Port 1, Port 2, Pot 3 and Port 4 could transmit/receive simultaneously.

For Bluetooth function:

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

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-BR(1Mbps)	0.771	1.13	2.9m	1k
BT-EDR(2Mbps)	0.777	1.1	2.9m	1k
BT-EDR(3Mbps)	0.757	1.21	2.85m	1k

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter
Test Software Version	17.10.77.12(r774095 WL TEST)



1.1.5 Table for Multiple Listing

The EUT has two model names which are identical to each other in all aspects except for the following table:

Model Name	Description
MR9600	All the models are identical; different models serve as marketing strategy.
EA9350	

From the above models, model: MR9600 was selected as representative model for the test and its data was recorded in this report.



1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location				
☐	HWAYA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	TEL : 886-3-327-3456	FAX : 886-3-327-0973
☒	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.	TEL : 886-3-656-9065	FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	DK Chang	24.6-26.5°C / 63-65%	May 09, 2019~ Aug. 17, 2019
Radiated (Below 1GHz)	03CH06-CB	Cola Fan	25.3-26.6°C / 60-66%	Apr. 30, 2019~ Aug. 28, 2019
Radiated (Above 1GHz)	03CH06-CB	Cola Fan	29.7-30.5°C / 67-69%	Apr. 30, 2019~ Aug. 28, 2019
AC Conduction	CO01-CB	Max Lin	23~24°C / 59~60 %	Aug. 28, 2019

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086B with Industry Canada.

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)	2.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.1 dB	Confidence levels of 95%
Conducted Emission	2.4 dB	Confidence levels of 95%
Output Power Measurement	1.5 dB	Confidence levels of 95%
Bandwidth Measurement	2%	Confidence levels of 95%



2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	PowerSetting
BT-BR(1Mbps)	-
2402MHz	4
2440MHz	a
2480MHz	8
BT-EDR(2Mbps)	-
2402MHz	a
2440MHz	a
2480MHz	a
BT-EDR(3Mbps)	-
2402MHz	8
2440MHz	a
2480MHz	9

2.2 The Worst Case Measurement Configuration

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	2.4GHz + Adapter 1
2	5GHz + Adapter 1
3	Bluetooth BR/EDR + Adapter 1
4	Bluetooth LE + Adapter 1
Mode 1 has been evaluated to be the worst case among Mode 1~4, thus measurement for Mode 5 ~ 7 will follow this same test mode.	
5	2.4GHz + Adapter 2
6	2.4GHz + Adapter 3
7	2.4GHz + Adapter 4 + power cord
For operating mode 1 is the worst case and it was record in this test report.	

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	CTX
1	2.4GHz + Adapter 1
2	5GHz + Adapter 1
3	Bluetooth BR/EDR + Adapter 1
4	Bluetooth LE + Adapter 1
Mode 4 has been evaluated to be the worst case among Mode 1~4, thus measurement for Mode 5 ~ 7 will follow this same test mode.	
5	Bluetooth LE + Adapter 2
6	Bluetooth LE + Adapter 3
7	Bluetooth LE + Adapter 4 + power cord
For operating mode 4 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	Bluetooth+WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: FA962635 for Co-location RF Exposure Evaluation.	

Note: The EUT can only be used at Z axis position

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.



2.4 Accessories

Accessories				
Equipment Name	Brand Name	Model Name	Rating	DC power Line
Adapter 1	Ktec	KSAS0501200400HU	Input: 100-240V~50/60Hz 1.2A Output: 12V, 4.0A	-
Adapter 2	Ktec	KSAS0501200400M2	Input: 100-240V~50/60Hz 1.2A Output: 12V, 4.0A	Non-Shielded, 1.3m
Adapter 3	LEI	MU48AY120400-A1	Input: 100-240V~50/60Hz 1.5A Output: 12V, 4A	-
Adapter 4	APD	DA-48T12	Input: 100-240V~50/60Hz 1.4A Max Output: 12V, 4A	Non-Shielded, 1.3m
Others				
Power cord*2: Non-Shielded, 1m (Use for Adapter 2 and Adapter 4)				
RJ-45 cable*1: Non-Shielded, 1m				



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E6430	N/A
B	Flash disk3.0	Transcend	JetFlash-700	N/A
C	Flash disk3.0	Transcend	JetFlash-700	N/A

For Radiated (below 1GHz):

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

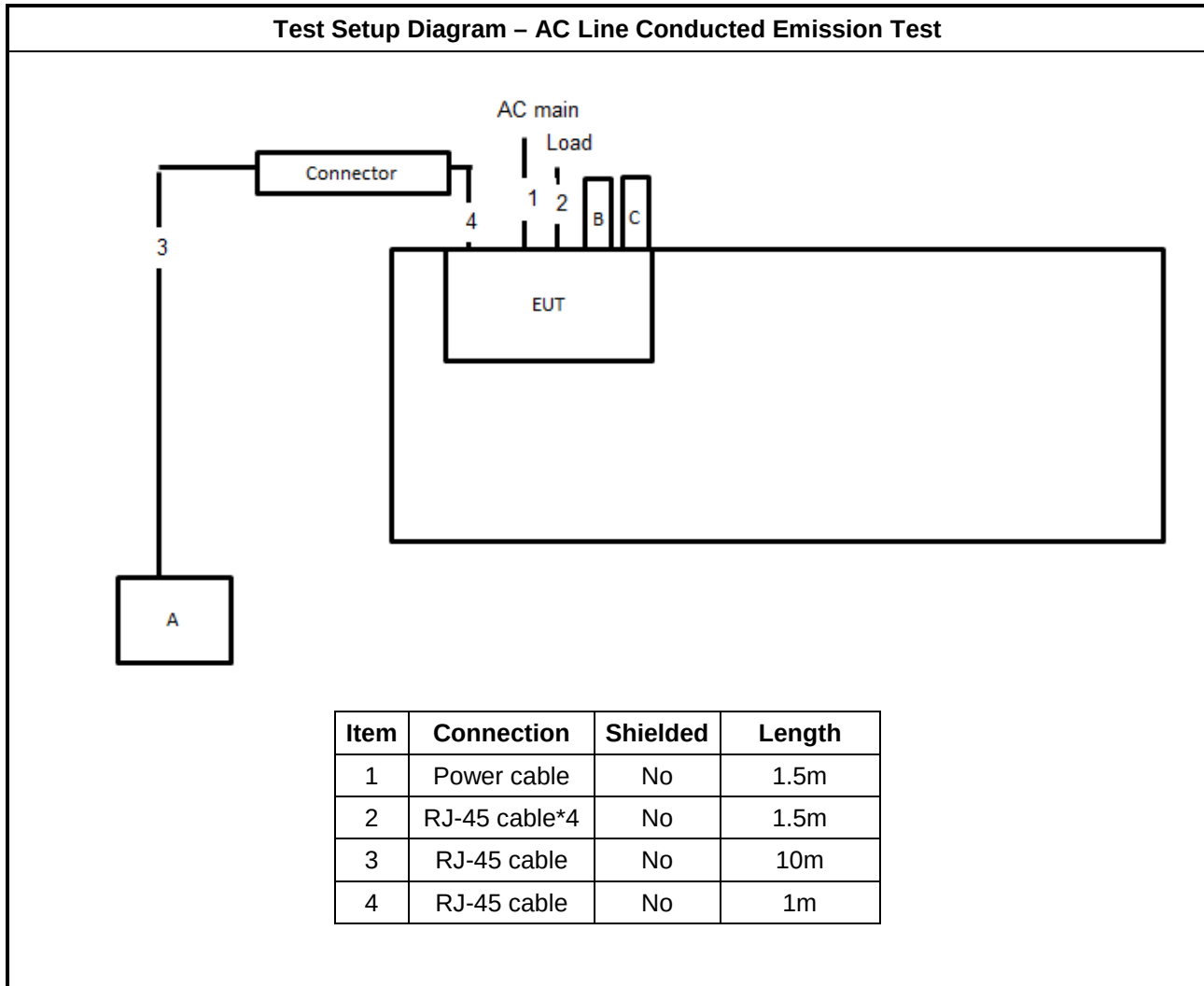
For Radiated (above 1GHz):

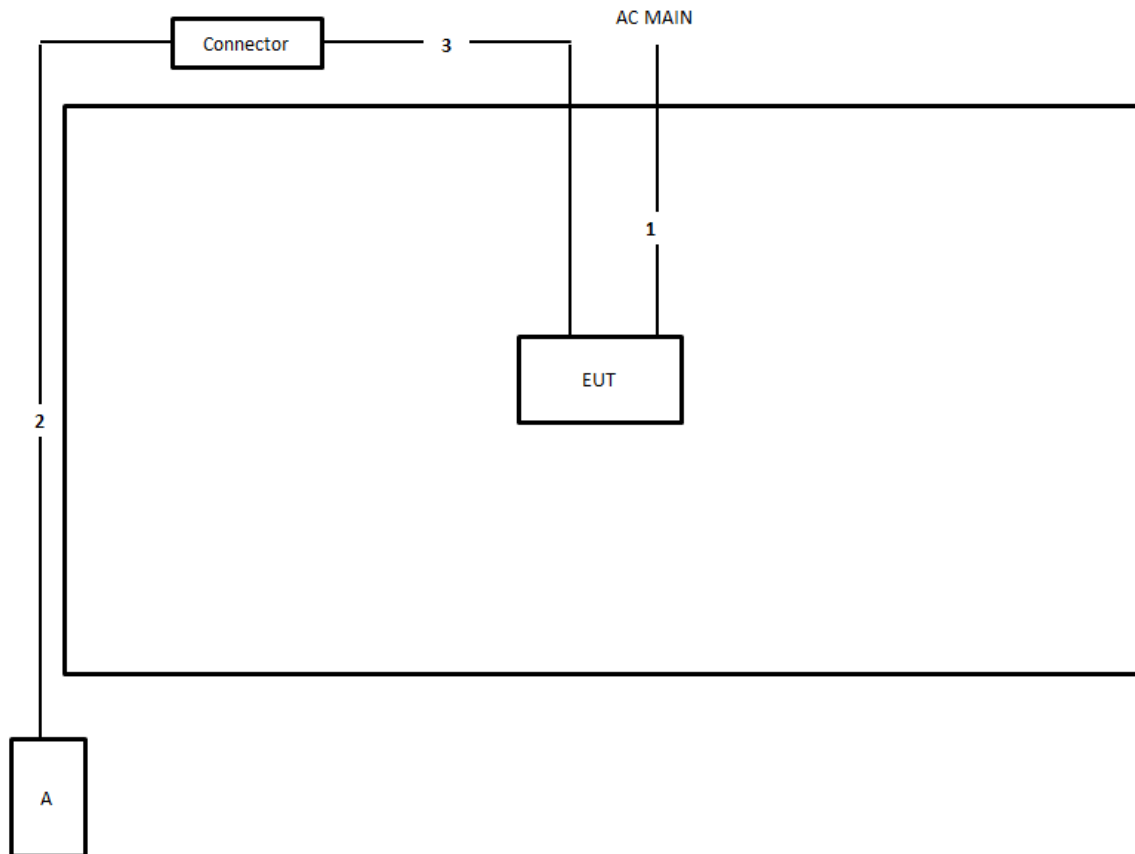
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

For RF Conducted:

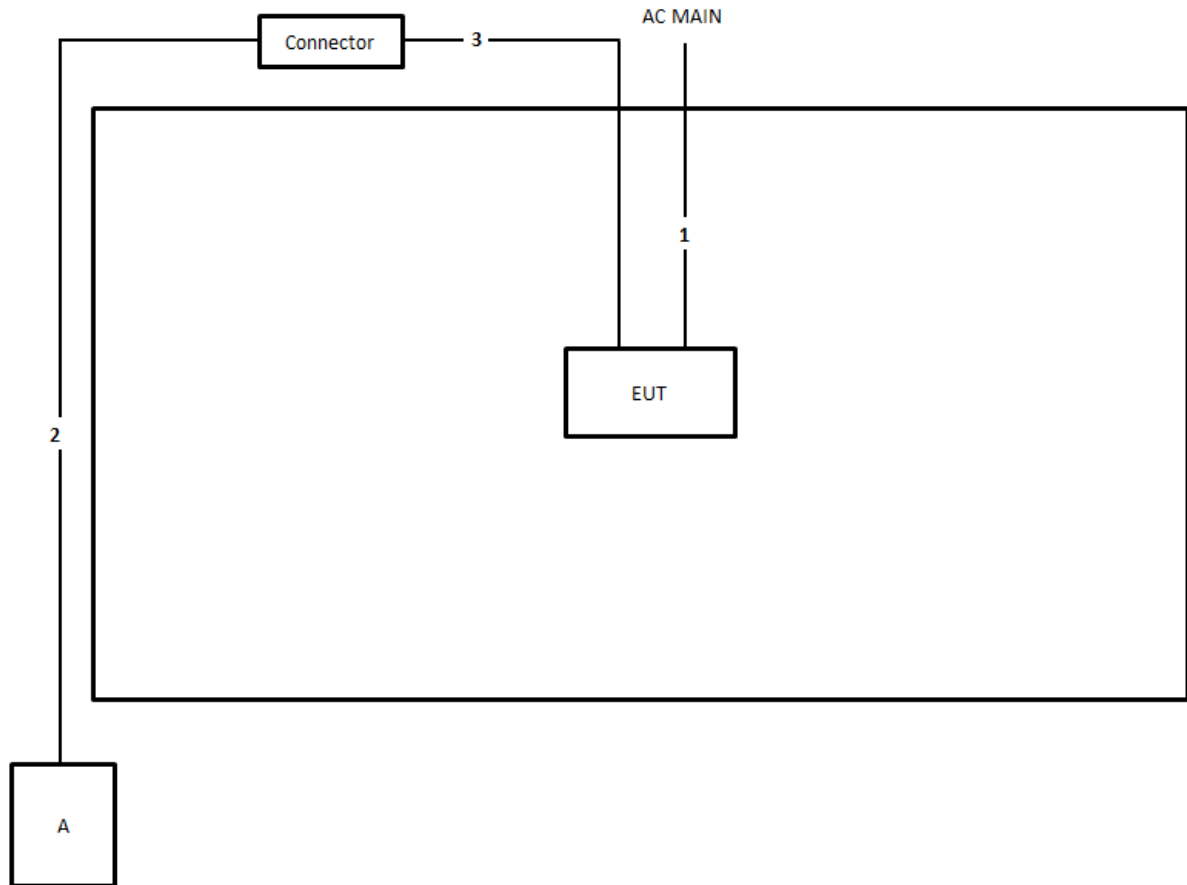
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1m

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	1m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

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.

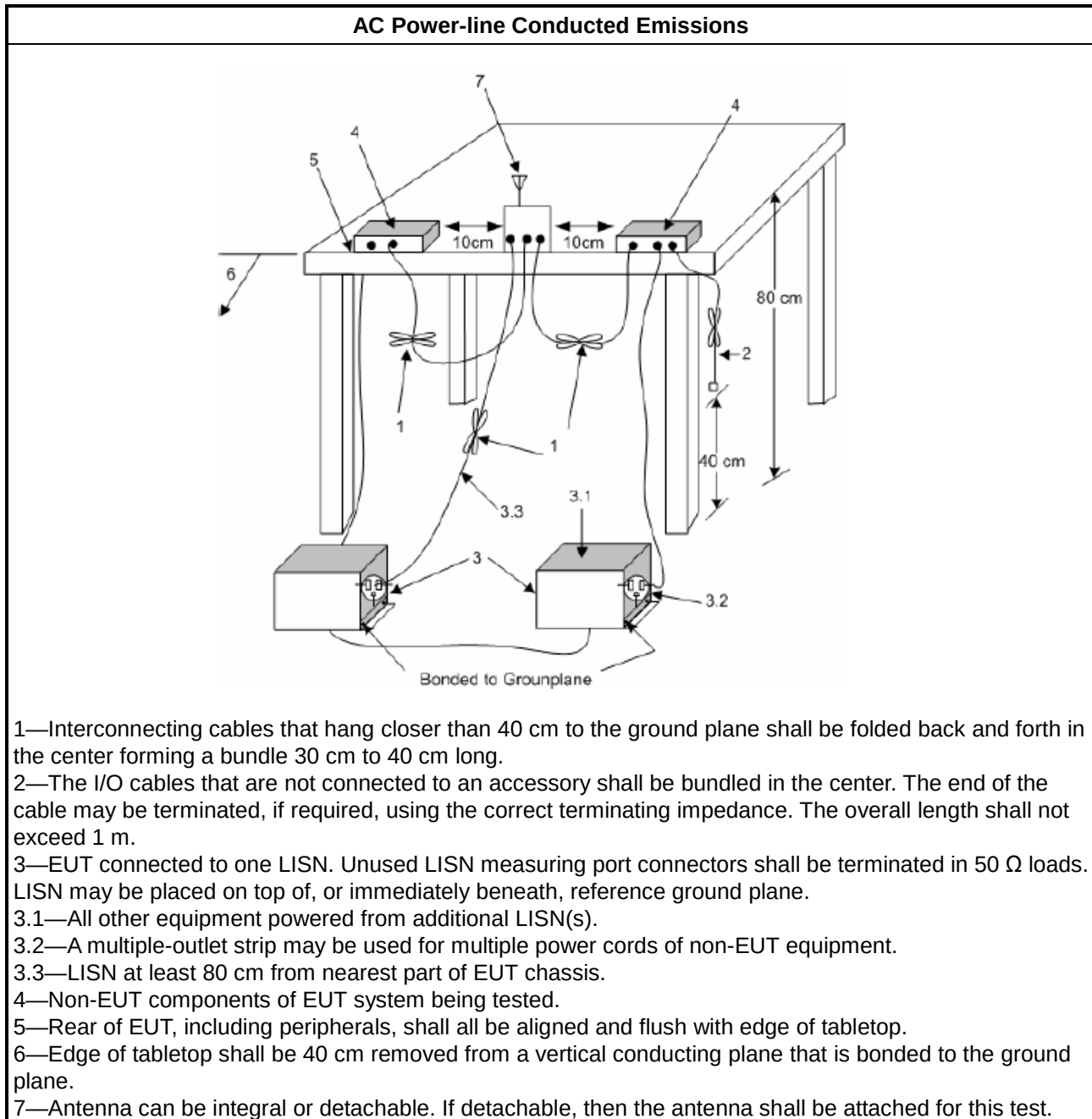
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

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	
▪ 902-928 MHz Band:	
	▪ $N \geq 50$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 250 kHz.
	▪ $50 > N \geq 25$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $>$ 250 kHz.
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz).
	▪ $75 > N \geq 15$ and $ChS \geq \text{MAX}$ (20 dB bandwidth 2/3, 25 kHz).
▪ 5725-5850 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 1 MHz.
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

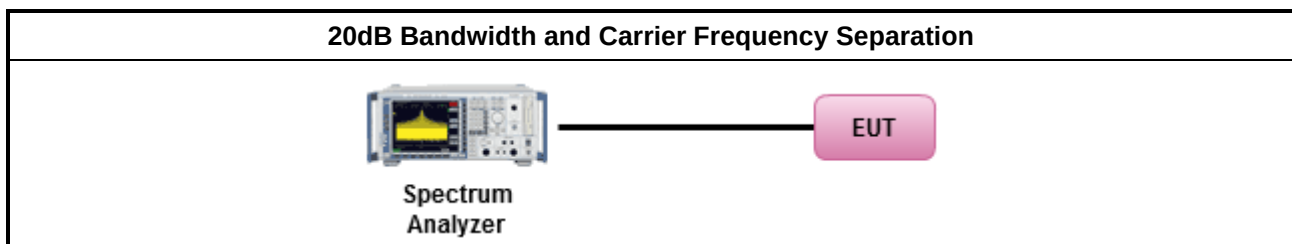
3.2.2 Measuring Instruments

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 6.9.1 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

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
▪ 902-928 MHz Band:	
▪ N ≥ 50; Power 30dBm; EIRP 36dBm	
▪ 50 > N ≥ 25; Power 24dBm; EIRP 30dBm	
▪ 2400-2483.5 MHz Band:	
▪ N ≥ 75; Power 30dBm; EIRP 36dBm	
▪ 75 > N ≥ 15; Power 21dBm; EIRP 27dBm	
▪ 5725-5850 MHz Band:	
▪ N ≥ 75; Power 30dBm; EIRP 36dBm	
N: Number of Hopping Frequencies	

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

Maximum Conducted Output Power (Peak Power Meter)
 The diagram illustrates the test setup for measuring Maximum Conducted Output Power. It shows a Power Meter (a blue and white device with a screen and buttons) connected via a cable to an EUT (Equipment Under Test), which is represented by a pink rectangular block labeled 'EUT'.

3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Number of Hopping Frequencies and Hopping Bandedge

3.4.1 Number of Hopping Frequencies Limit

Number of Hopping Frequencies Limit	
▪ 902-928 MHz Band:	
	▪ $N \geq 50$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 250 kHz.
	▪ $50 > N \geq 25$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $>$ 250 kHz.
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz).
	▪ $75 > N \geq 15$ and $ChS \geq \text{MAX}$ (20 dB bandwidth 2/3, 25 kHz).
▪ 5725-5850 MHz Band:	
	▪ $N \geq 75$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 1 MHz.
N: Number of Hopping Frequencies; ChS : Hopping Channel Separation	

3.4.2 Hopping Bandedge Limit

Refer clause 3.6.1 and clause 3.7.1

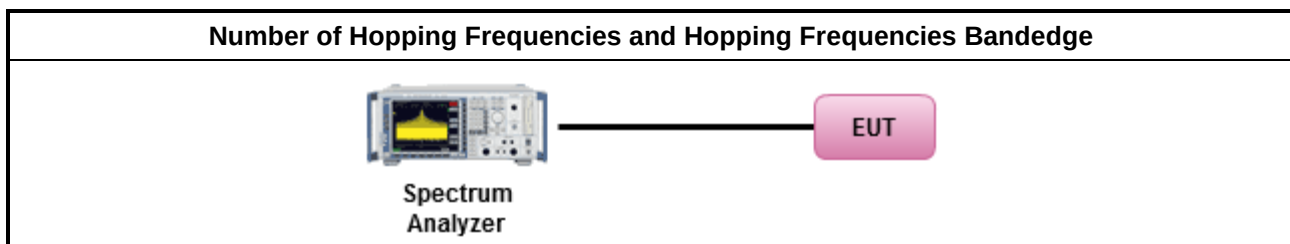
3.4.3 Measuring Instruments

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.
▪ 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

3.5 Time of Occupancy (Dwell Time)

3.5.1 Time of Occupancy (Dwell Time) Limit

20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems	
▪ 902-928 MHz Band:	
	▪ $N \geq 50$; 0.4s in 20s period
	▪ $50 > N \geq 25$; 0.4s in 10s period
▪ 2400-2483.5 MHz Band:	
	▪ $N \geq 75$; 0.4s in $N \times 0.4$ period
	▪ $75 > N \geq 15$; 0.4s in $N \times 0.4$ period
▪ 5725-5850 MHz Band:	
	▪ $N \geq 75$; 0.4s in 30s period
N: Number of Hopping Frequencies	

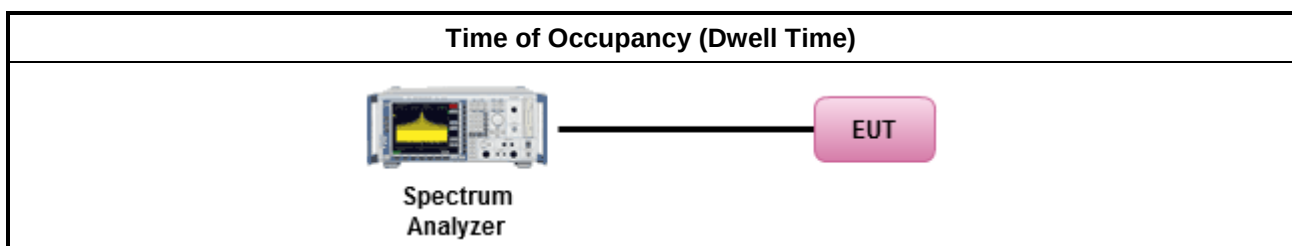
3.5.2 Measuring Instruments

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

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 (dBc)
Peak output power procedure	20
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.	

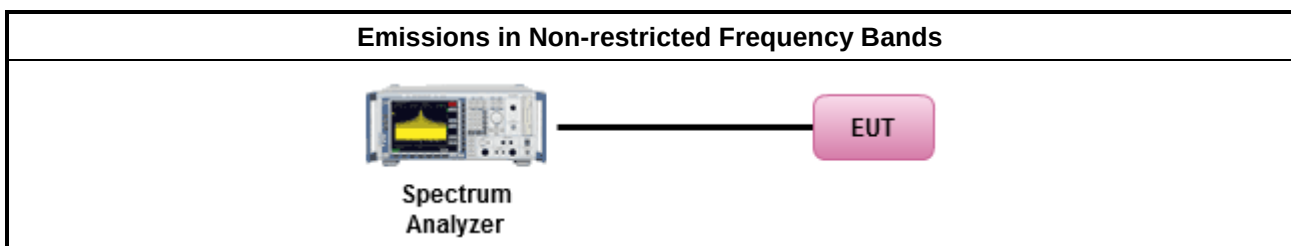
3.6.2 Measuring Instruments

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

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 below 30 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 EUT.

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.

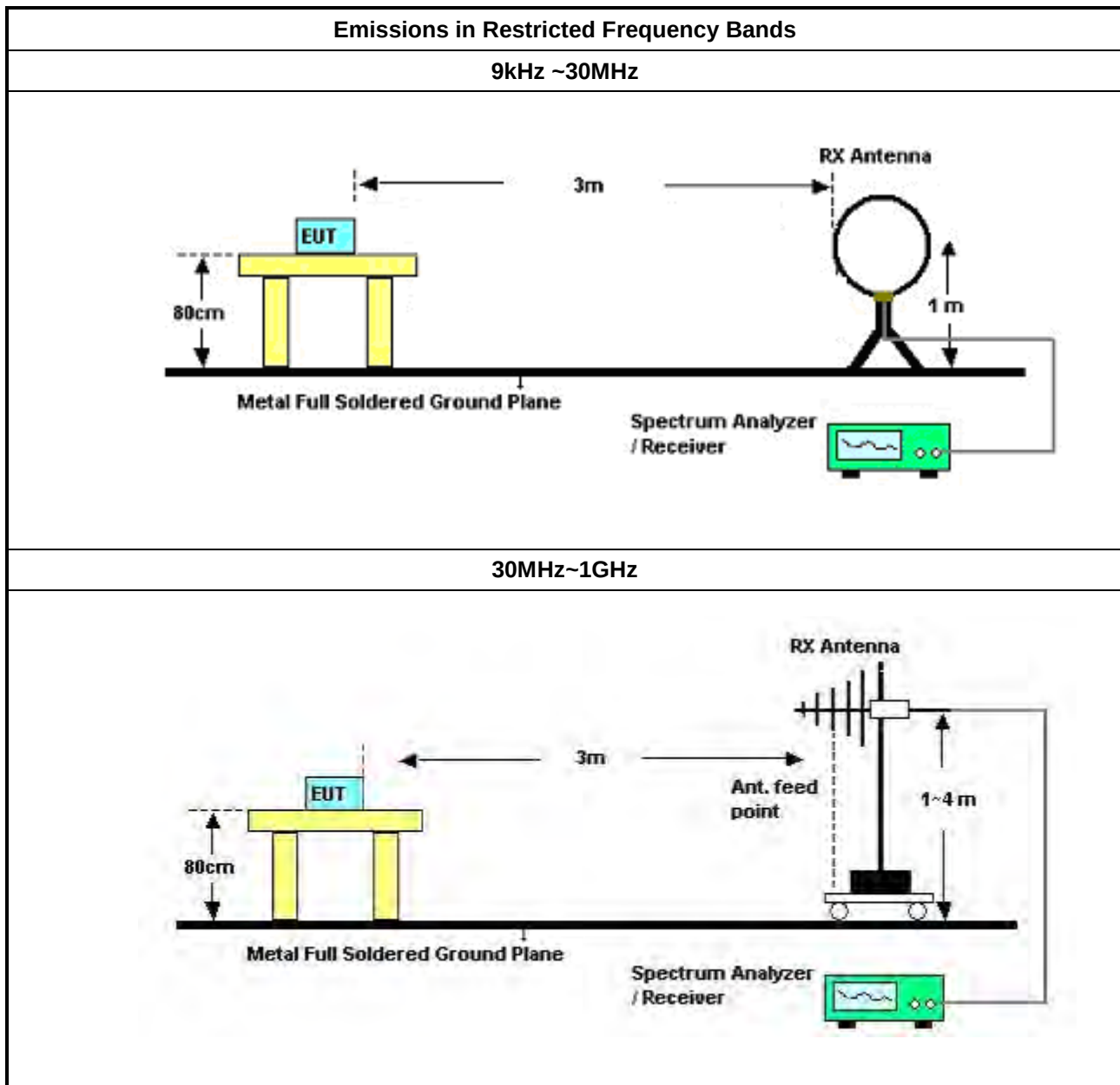
3.7.2 Measuring Instruments

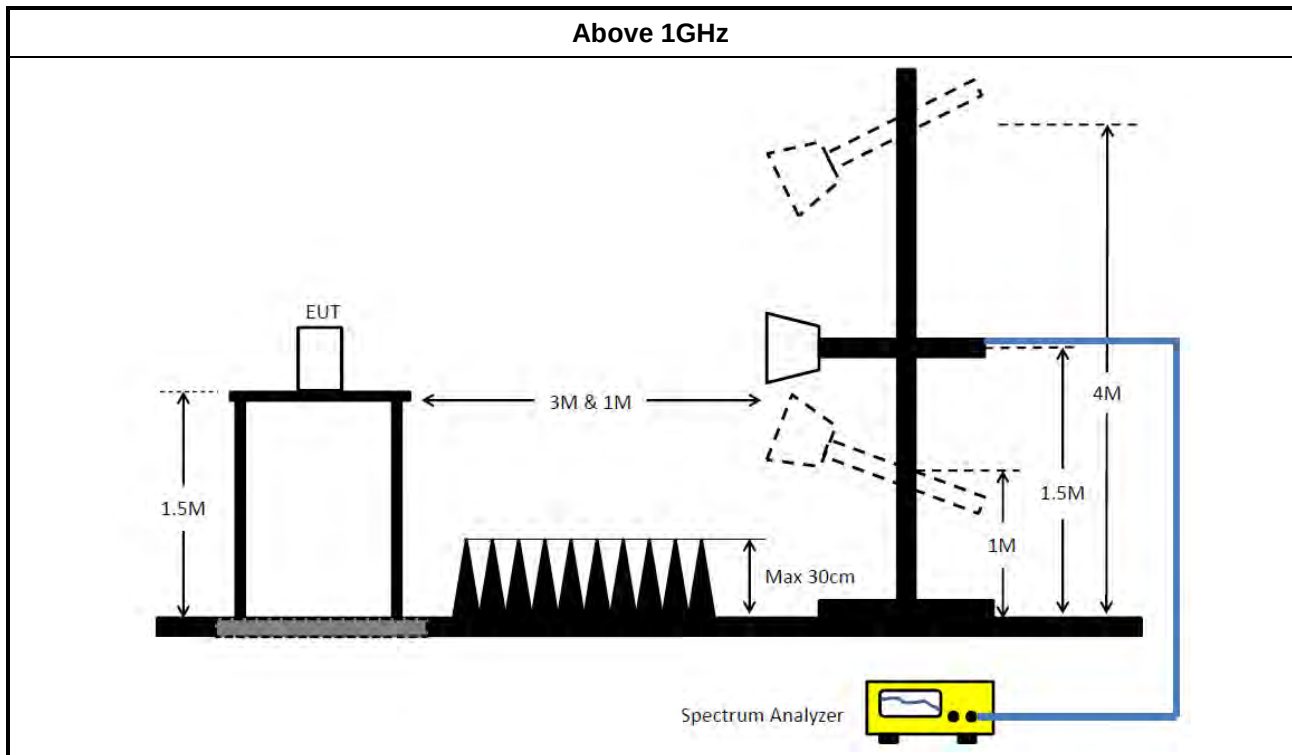
Refer a test equipment and calibration data table in this test report.

3.7.3 Test Procedures

Test Method	
▪ The average emission levels shall be measured in [hopping duty factor].	
▪ Refer as ANSI C63.10; clause 6.10.3 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.

3.7.4 Test Setup





3.7.5 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

3.7.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10 harmonic or 40 GHz, whichever is appropriate.

3.7.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix G



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 28, 2019	Jan. 29, 2020	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 24, 2018	Dec. 23, 2019	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Jan. 11, 2019	Jan. 10, 2020	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 21, 2019	May 20, 2020	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 29, 2019	Mar. 28, 2020	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Aug. 04, 2018	Aug. 03, 2019	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & Woken	CBL6112D N-6-06-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 27, 2018	Aug. 26, 2019	Radiation (03CH06-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 13, 2018	Nov. 12, 2019	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1292	1GHz~18GHz	Jul. 17, 2019	Jul. 16, 2020	Radiation (03CH06-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jun. 28, 2018	Jun. 27, 2019	Radiation (03CH06-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 12, 2019	Jun. 11, 2020	Radiation (03CH06-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2018	May 01, 2019	Radiation (03CH06-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 01, 2019	Apr. 30, 2020	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 08, 2019	Jan. 07, 2020	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 04, 2018	Jul. 03, 2019	Radiation (03CH06-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 03, 2019	Jul. 02, 2020	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSP40	100080	9kHz~40GHz	Oct. 03, 2018	Oct. 02, 2019	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	100359	9kHz ~ 2.75GHz	Jul. 03, 2018	Jul. 02, 2019	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	May 15, 2019	May 14, 2020	Radiation (03CH06-CB)
RF Cable-low	HUBER+SUHNER	RG402	Low Cable-05+24	30MHz~1GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH06-CB)
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05	1GHz~18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH06-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	HUBER+SUHNER	RG402	High Cable-05+24	1GHz~18GHz	Oct. 08, 2018	Oct. 07, 2019	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#1	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 27, 2018	Jul. 26, 2019	Radiation (03CH06-CB)
RF Cable-high	Woken	RG402	High Cable-40G#2	18GHz ~ 40 GHz	Jul. 24, 2019	Jul. 23, 2020	Radiation (03CH06-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Feb. 25, 2019	Feb. 24, 2020	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-28	1 GHz –26.5 GHz	Nov. 19, 2018	Nov. 18, 2019	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Jan. 15, 2019	Jan. 14, 2020	Conducted (TH01-CB)

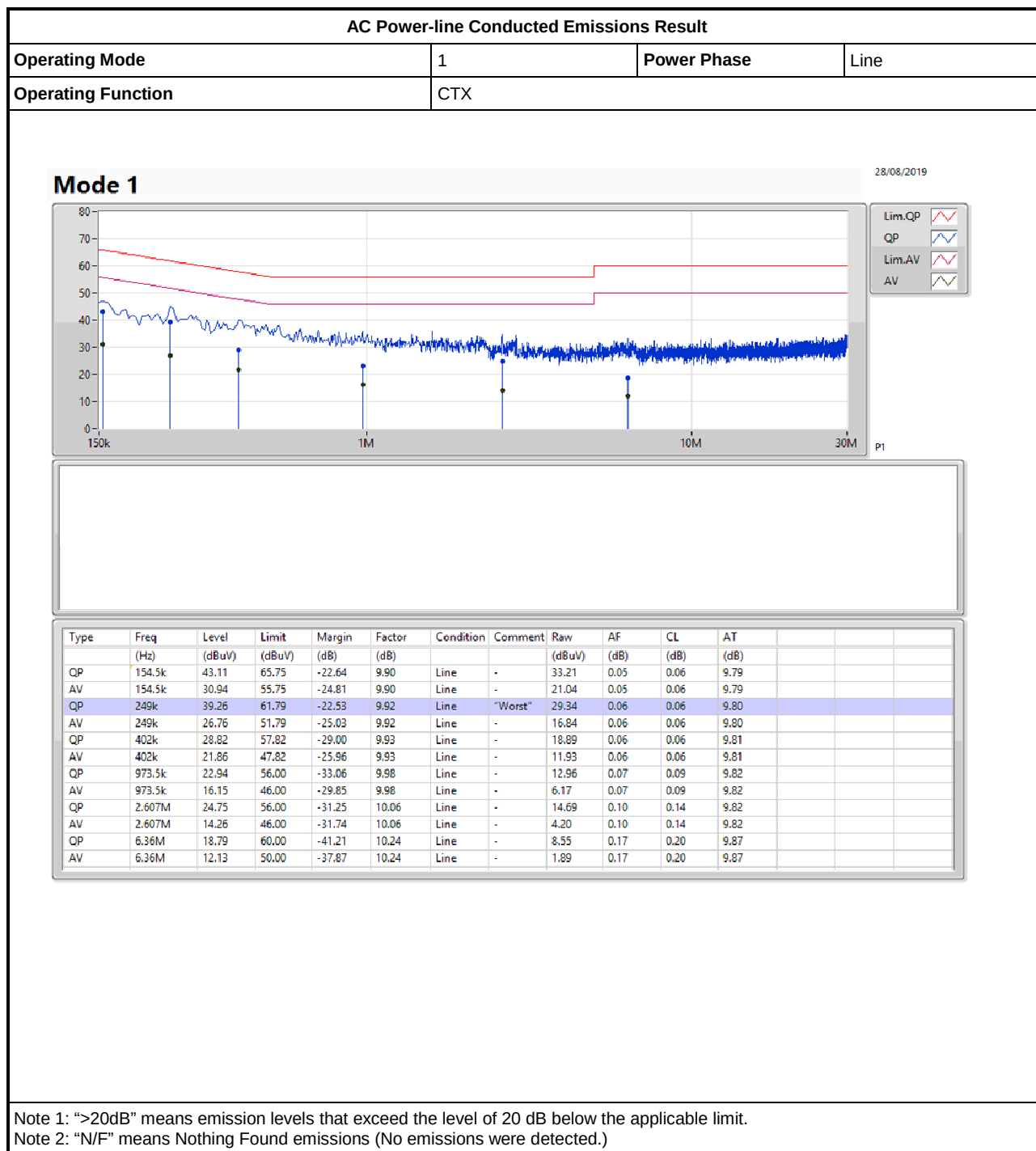
Note: Calibration Interval of instruments listed above is one year.

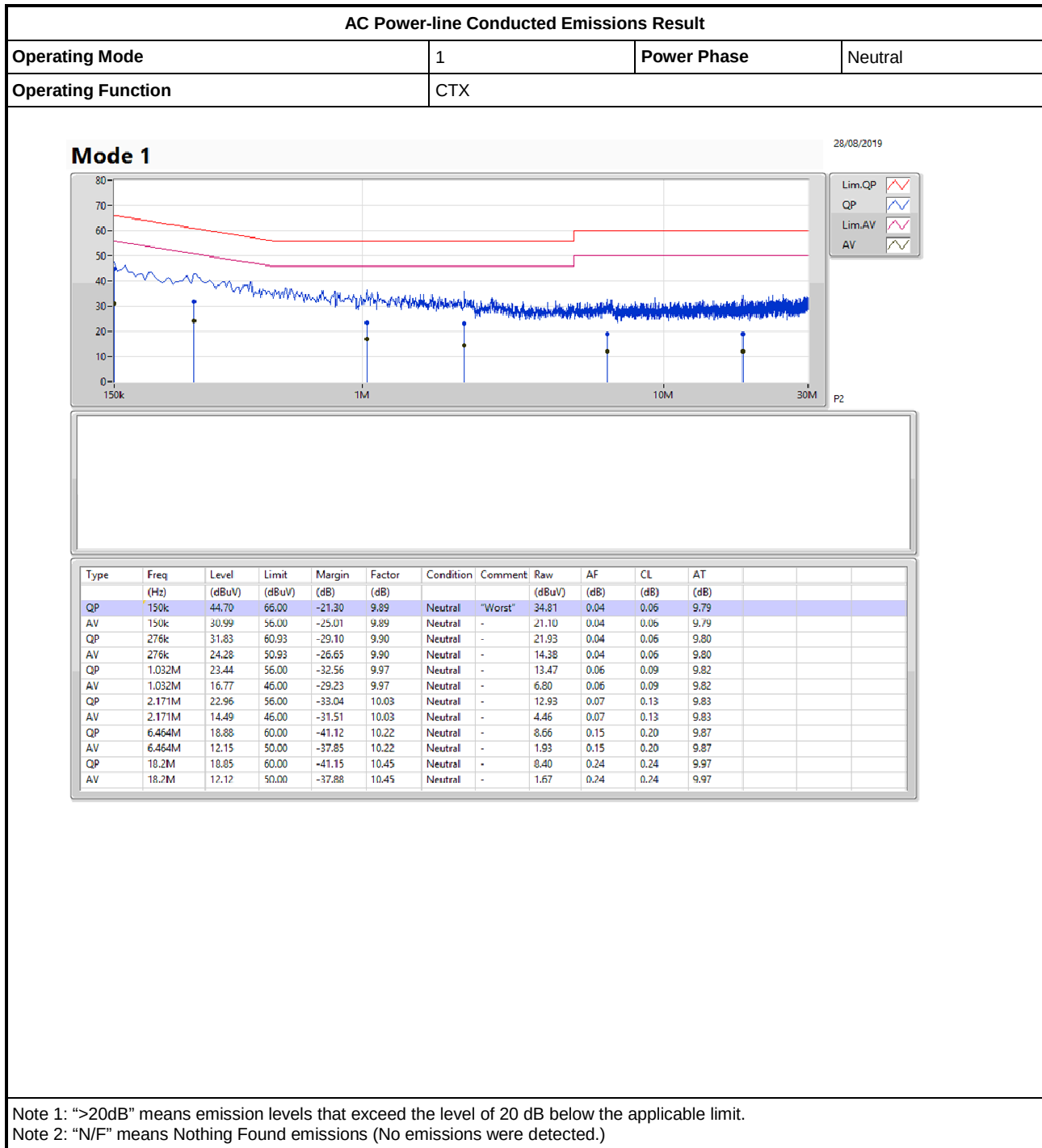
NCR means Non-Calibration required.



AC Power-line Conducted Emissions Result

Appendix A





Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-BR(1Mbps)	920k	890.805k	891KF1D	920k	887.056k
BT-EDR(2Mbps)	1.338M	1.232M	1M23G1D	1.335M	1.224M
BT-EDR(3Mbps)	1.323M	1.223M	1M22G1D	1.31M	1.219M

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;

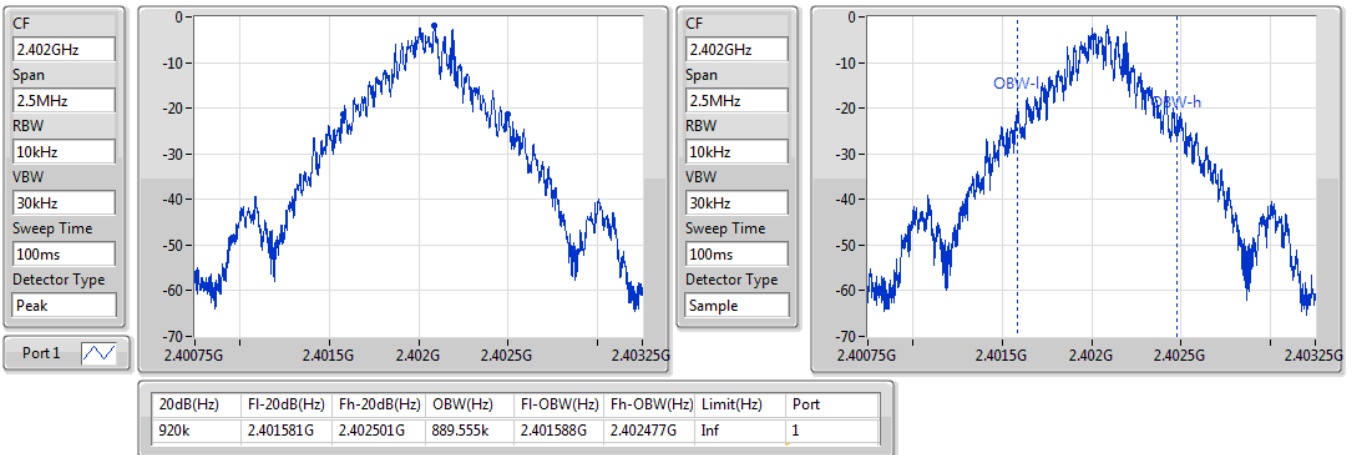
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	920k	889.555k
2440MHz	Pass	Inf	920k	890.805k
2480MHz	Pass	Inf	920k	887.056k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.338M	1.224M
2440MHz	Pass	Inf	1.335M	1.232M
2480MHz	Pass	Inf	1.336M	1.224M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.318M	1.223M
2440MHz	Pass	Inf	1.323M	1.219M
2480MHz	Pass	Inf	1.31M	1.221M

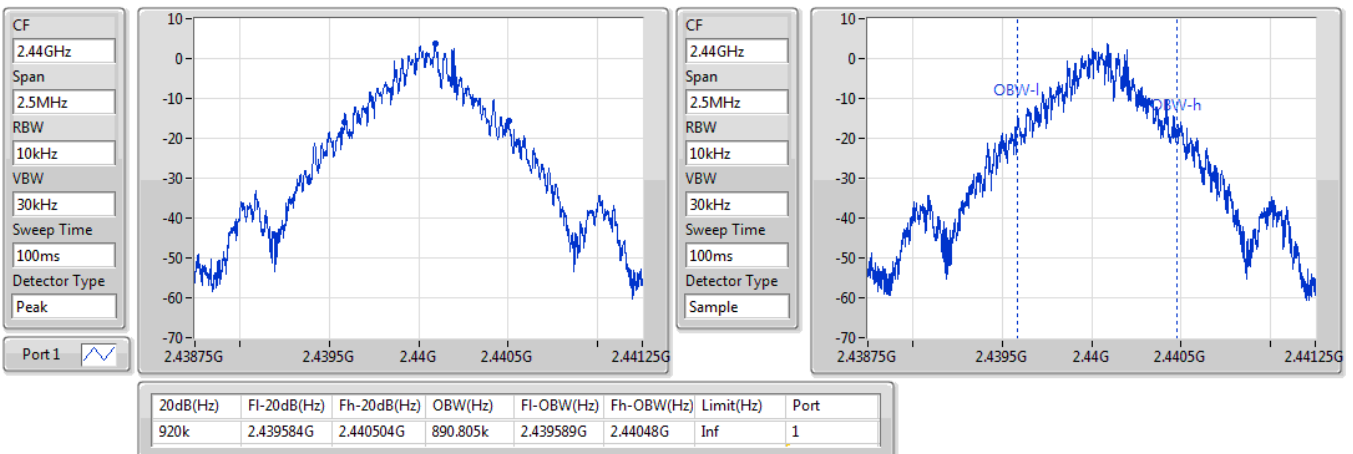
Port X-N dB = Port X 20dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

BT-BR(1Mbps)
2402MHz
EBW

17/08/2019

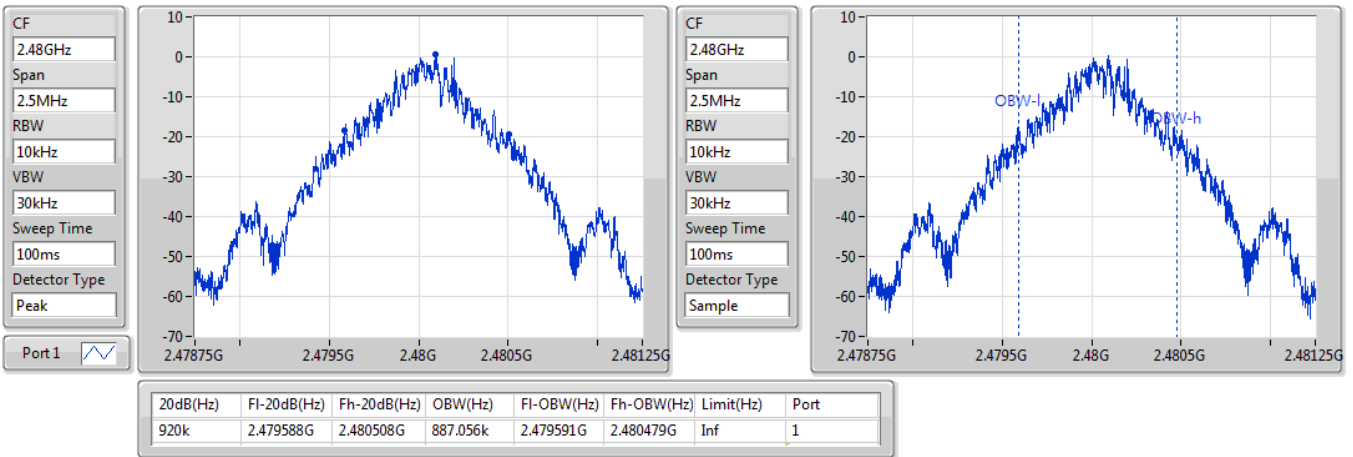

BT-BR(1Mbps)
2440MHz
EBW

17/08/2019

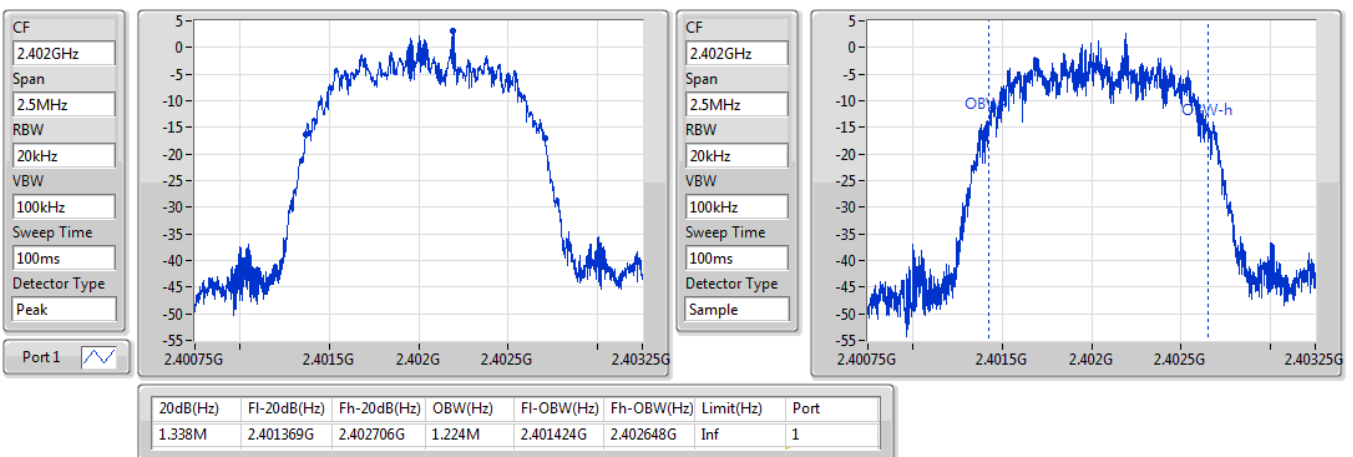


BT-BR(1Mbps)
EBW
2480MHz

17/08/2019

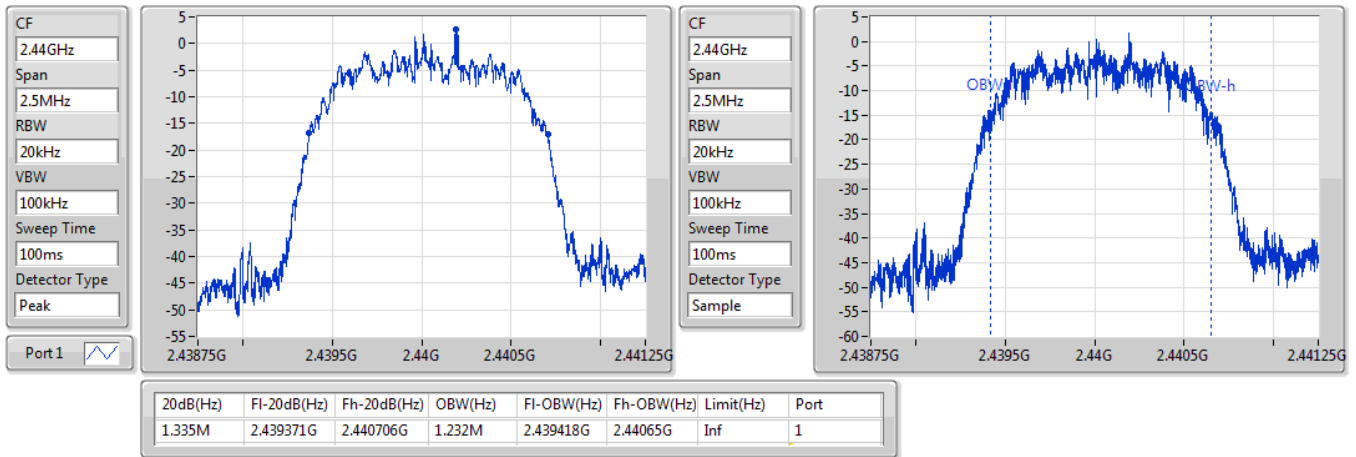

BT-EDR(2Mbps)
EBW
2402MHz

17/08/2019

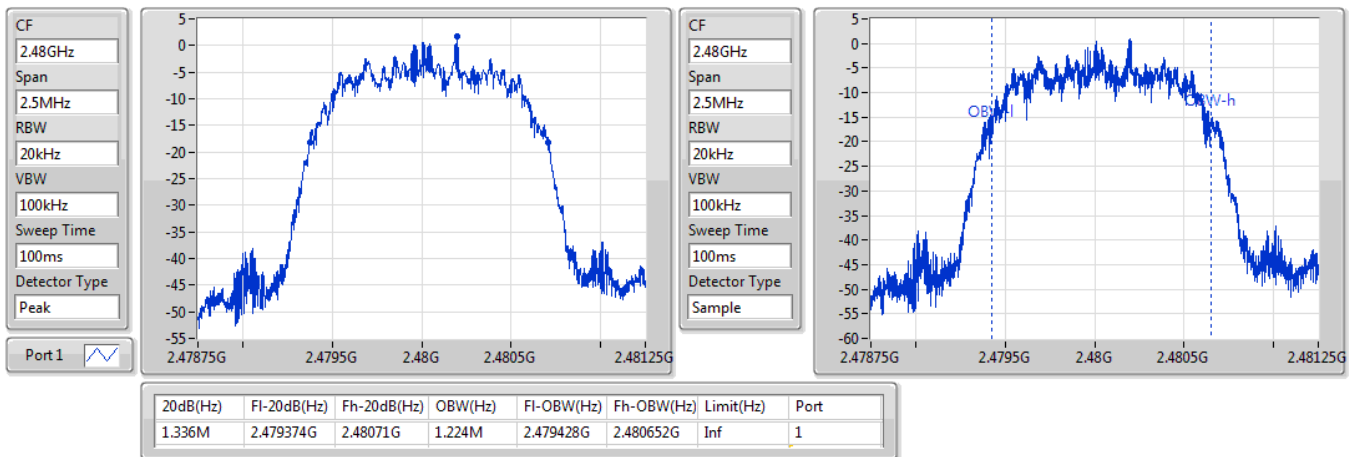


BT-EDR(2Mbps)
2440MHz
EBW

17/08/2019

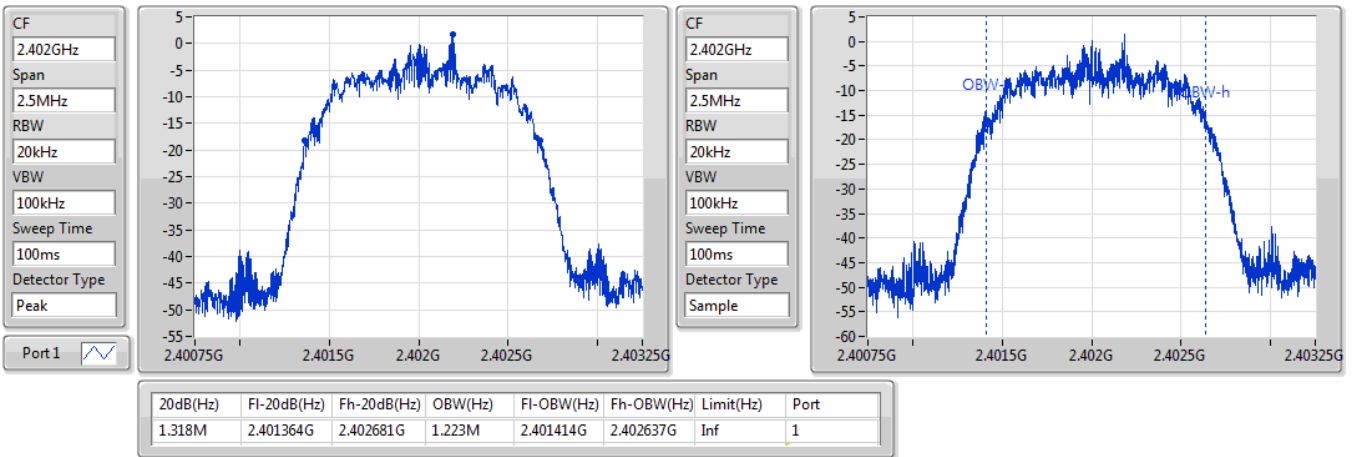

BT-EDR(2Mbps)
2480MHz
EBW

17/08/2019

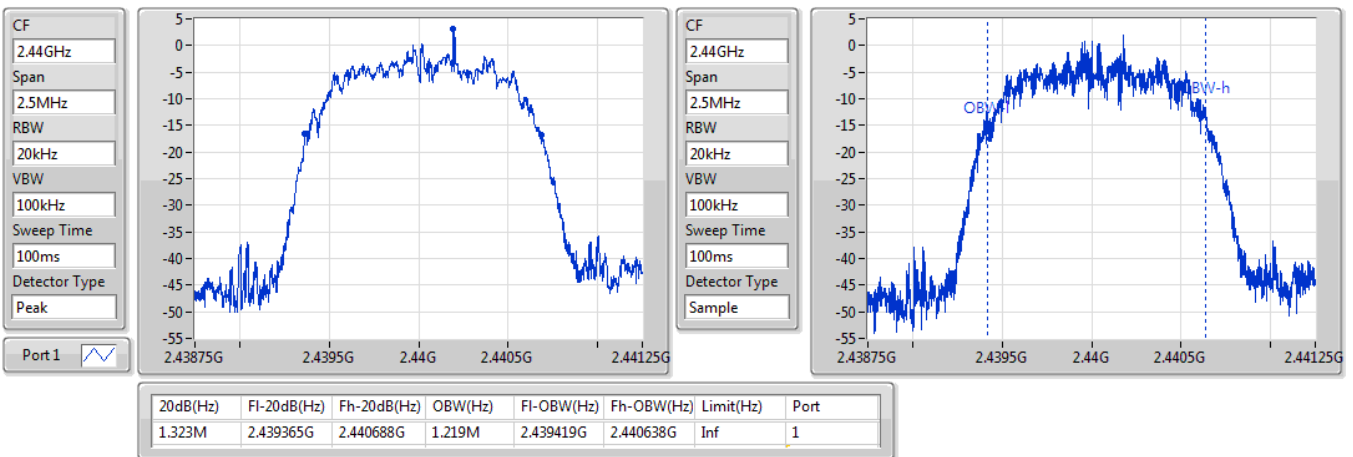


BT-EDR(3Mbps)
2402MHz
EBW

17/08/2019


BT-EDR(3Mbps)
2440MHz
EBW

17/08/2019

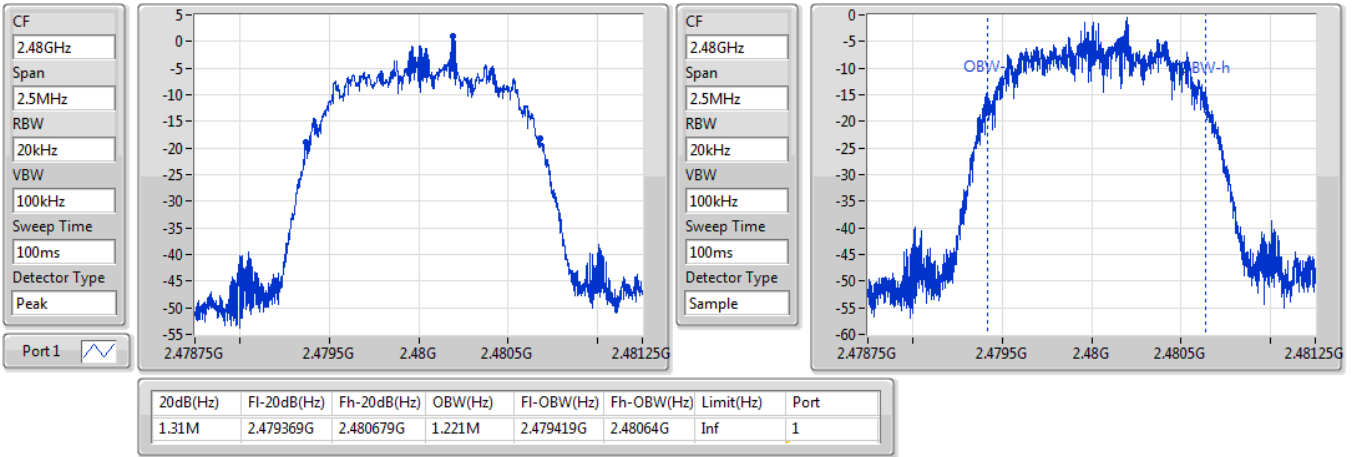


BT-EDR(3Mbps)

2480MHz

EBW

17/08/2019





Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.002M	997.5k
BT-EDR(2Mbps)	1.0035M	997.5k
BT-EDR(3Mbps)	999k	997.5k

Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402185G	2.403187G	1.002M	612.72k
2440MHz	Pass	2.440188G	2.44119G	1.002M	612.72k
2480MHz	Pass	2.479194G	2.480192G	997.5k	612.72k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.402193G	2.40319G	997.5k	891.108k
2440MHz	Pass	2.440194G	2.441198G	1.0035M	889.11k
2480MHz	Pass	2.479196G	2.480199G	1.0035M	889.776k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402187G	2.403186G	999k	877.788k
2440MHz	Pass	2.44019G	2.441189G	999k	881.118k
2480MHz	Pass	2.479193G	2.48019G	997.5k	872.46k

BT-BR(1Mbps)

2.402G/2.403GHz

Channel Separation

17/08/2019

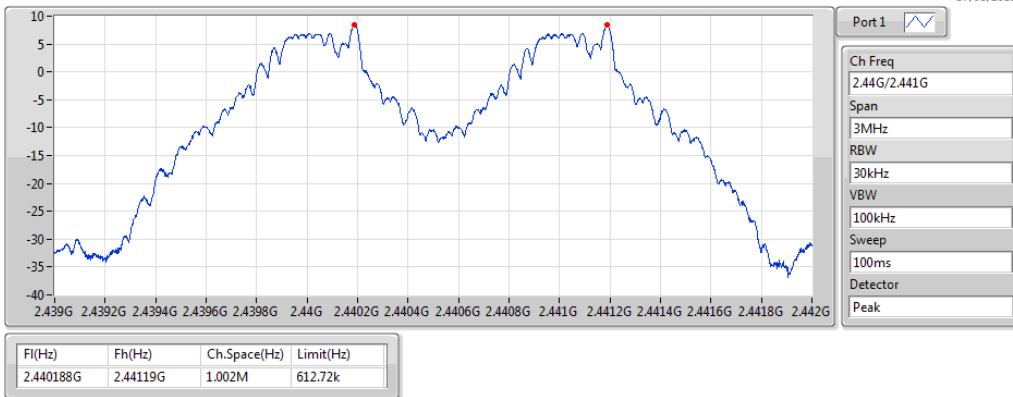


BT-BR(1Mbps)

2.44G/2.441GHz

Channel Separation

17/08/2019



BT-BR(1Mbps)

2.48G/2.479GHz

Channel Separation

17/08/2019

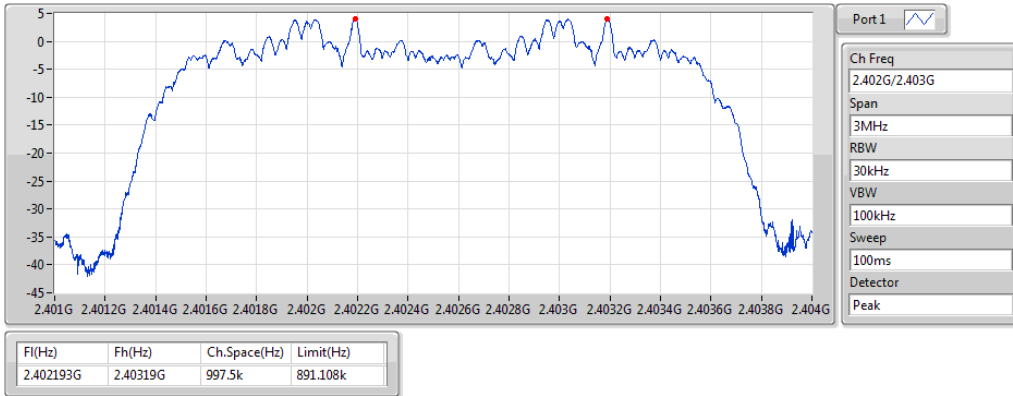


BT-EDR(2Mbps)

2.402G/2.403GHz

Channel Separation

17/08/2019

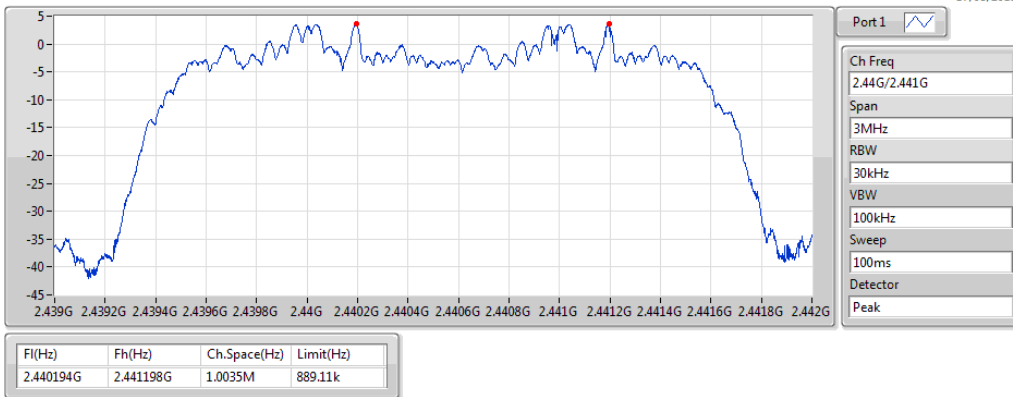


BT-EDR(2Mbps)

2.44G/2.441GHz

Channel Separation

17/08/2019

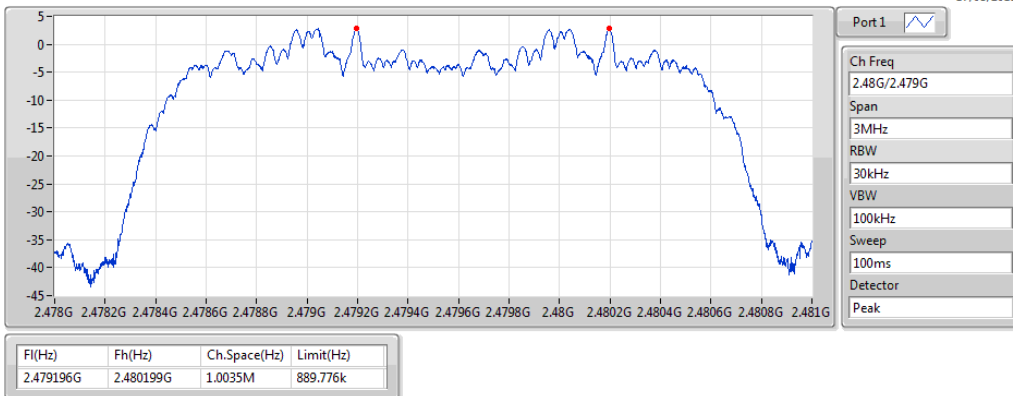


BT-EDR(2Mbps)

2.48G/2.479GHz

Channel Separation

17/08/2019

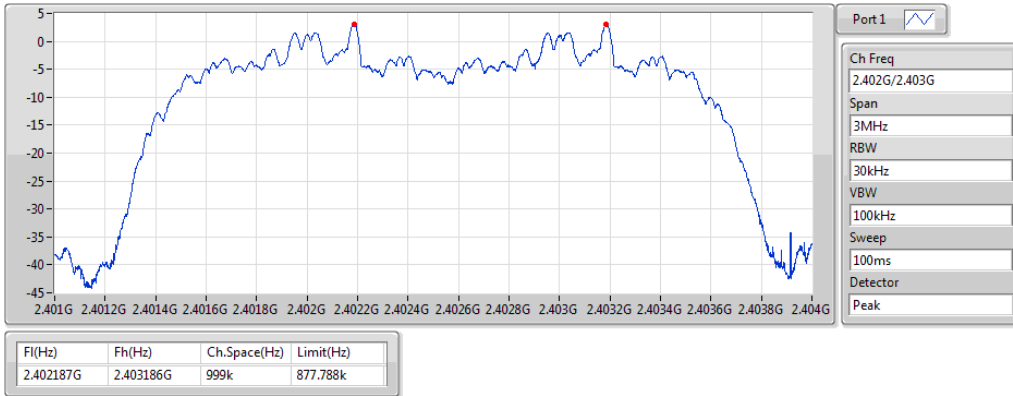


BT-EDR(3Mbps)

2.402G/2.403GHz

Channel Separation

17/08/2019

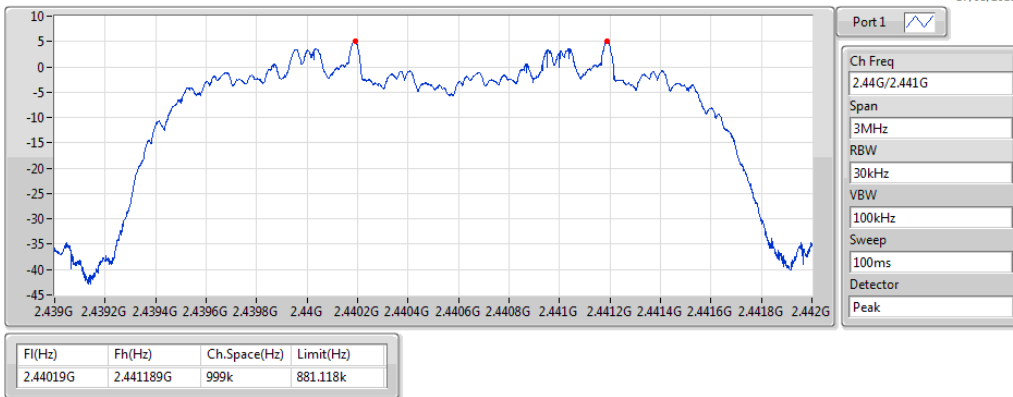


BT-EDR(3Mbps)

2.44G/2.441GHz

Channel Separation

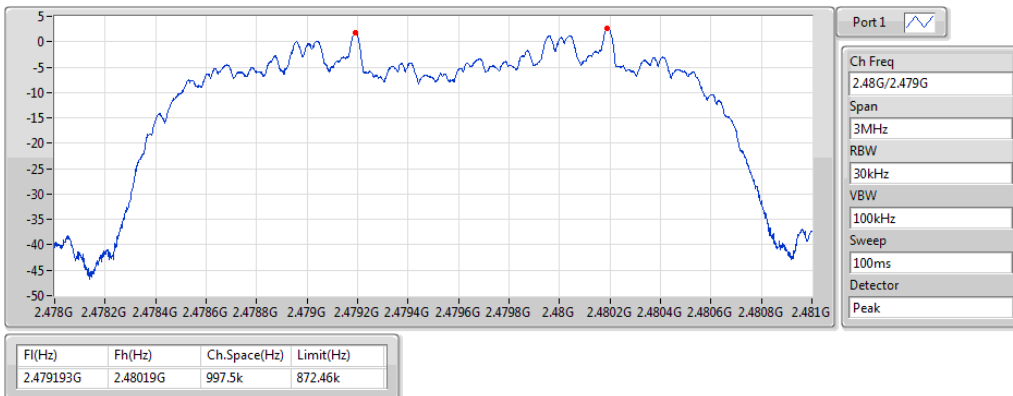
17/08/2019



BT-EDR(3Mbps)

2.48G/2.479GHz

Channel Separation





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	9.81	0.00957
BT-EDR(2Mbps)	7.19	0.00524
BT-EDR(3Mbps)	6.75	0.00473

**Result**

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.57	4.24	21.00
2440MHz	Pass	3.57	9.81	21.00
2480MHz	Pass	3.57	6.56	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	3.57	7.19	21.00
2440MHz	Pass	3.57	6.72	21.00
2480MHz	Pass	3.57	5.97	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.57	5.17	21.00
2440MHz	Pass	3.57	6.75	21.00
2480MHz	Pass	3.57	4.51	21.00

DG = Directional Gain; **Port X** = Port X output power



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	9.75	0.00944
BT-EDR(2Mbps)	9.32	0.00855
BT-EDR(3Mbps)	9.37	0.00865

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	3.57	4.11	21.00
2440MHz	Pass	3.57	9.75	21.00
2480MHz	Pass	3.57	6.53	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	3.57	9.32	21.00
2440MHz	Pass	3.57	8.90	21.00
2480MHz	Pass	3.57	8.06	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	3.57	7.70	21.00
2440MHz	Pass	3.57	9.37	21.00
2480MHz	Pass	3.57	7.19	21.00

DG = Directional Gain; **Port X** = Port X output power

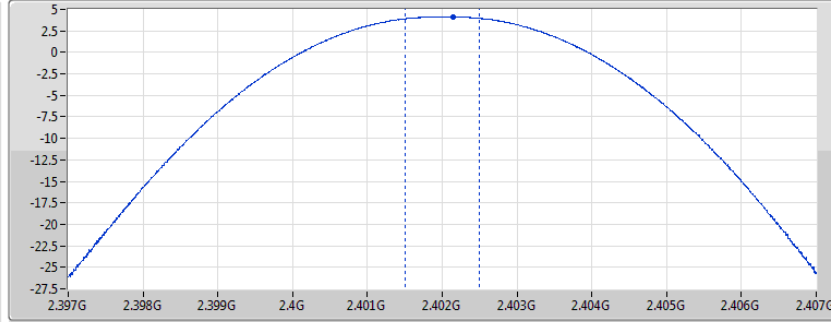
BT-BR(1Mbps)

PK Power

2402MHz

17/08/2019

CF
2.402GHz
Span
10MHz
RBW
3MHz
VBW
10MHz
Sweep Time
20ms
Detector Type
Peak
CP BW
NaNHz



Port 1

Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)
4.11	4.11

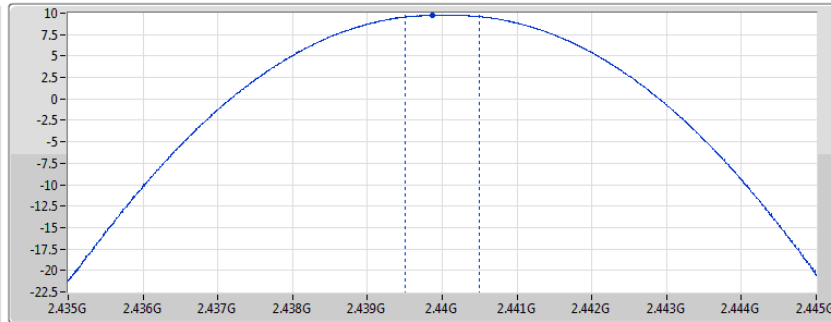
BT-BR(1Mbps)

PK Power

2440MHz

17/08/2019

CF
2.44GHz
Span
10MHz
RBW
3MHz
VBW
10MHz
Sweep Time
20ms
Detector Type
Peak
CP BW
NaNHz



Port 1

Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)
9.75	9.75

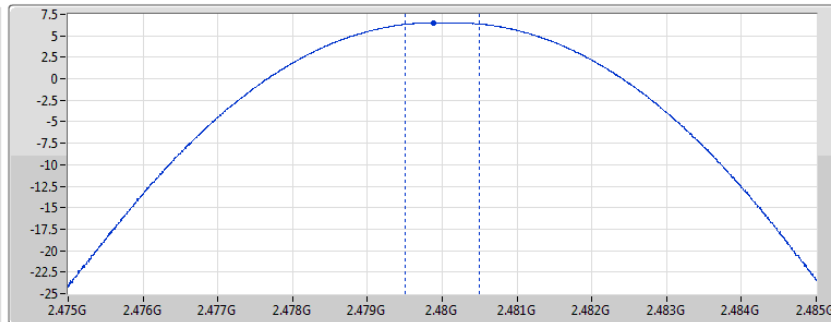
BT-BR(1Mbps)

PK Power

2480MHz

17/08/2019

CF
2.48GHz
Span
10MHz
RBW
3MHz
VBW
10MHz
Sweep Time
20ms
Detector Type
Peak
CP BW
NaNHz



Port 1

Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)
6.53	6.53

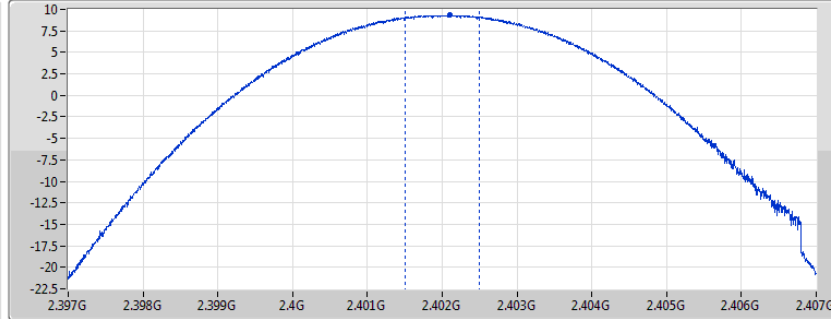
BT-EDR(2Mbps)

PK Power

2402MHz

17/08/2019

CF
2.402GHz
Span
10MHz
RBW
3MHz
VBW
10MHz
Sweep Time
20ms
Detector Type
Peak
CP BW
NaNHz



Port 1

Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)
9.32	9.32

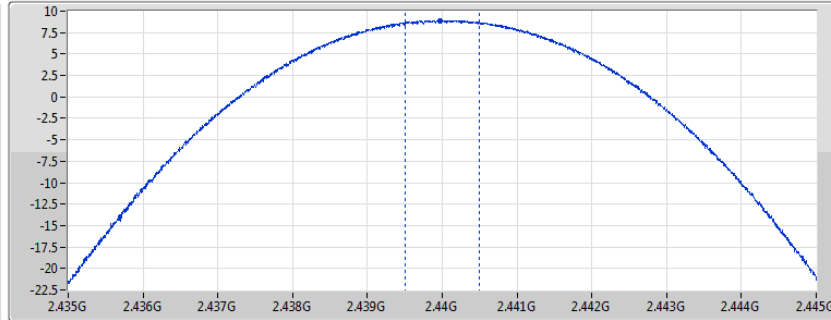
BT-EDR(2Mbps)

PK Power

2440MHz

17/08/2019

CF
2.44GHz
Span
10MHz
RBW
3MHz
VBW
10MHz
Sweep Time
20ms
Detector Type
Peak
CP BW
NaNHz



Port 1

Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)
8.90	8.90

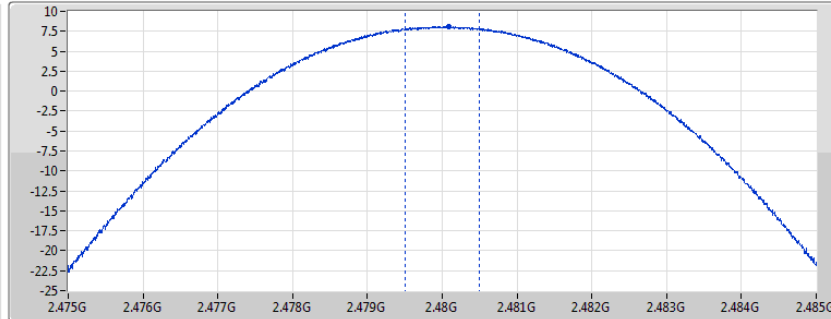
BT-EDR(2Mbps)

PK Power

2480MHz

17/08/2019

CF
2.48GHz
Span
10MHz
RBW
3MHz
VBW
10MHz
Sweep Time
20ms
Detector Type
Peak
CP BW
NaNHz



Port 1

Sum=Total Power
PX=Port X

Sum(dBm)	P1(dBm)
8.06	8.06

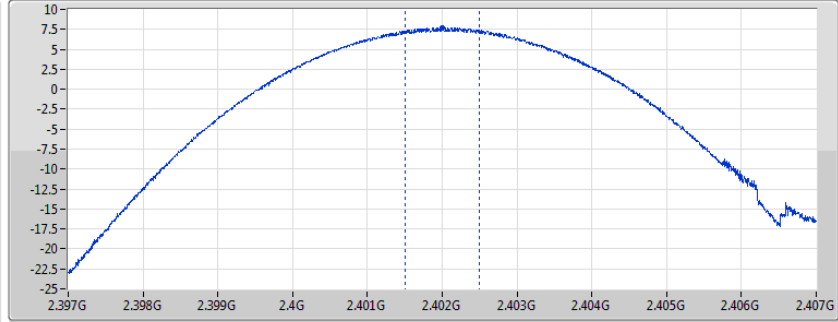
BT-EDR(3Mbps)

PK Power

2402MHz

17/08/2019

CF
2.402GHz
Span
10MHz
RBW
3MHz
VBW
10MHz
Sweep Time
20ms
Detector Type
Peak
CP BW
NaNHz



Sum=Total Power
PX=Port X

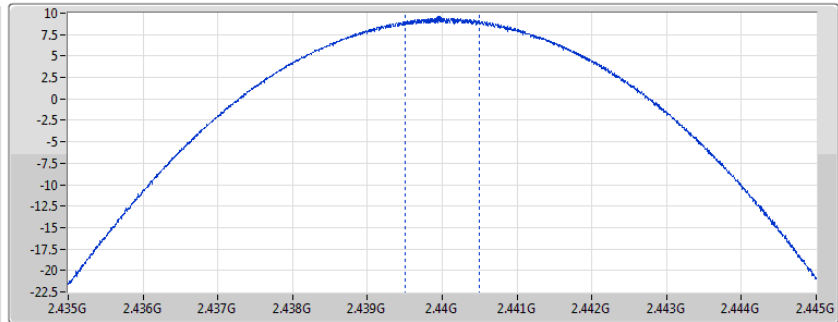
BT-EDR(3Mbps)

PK Power

2440MHz

17/08/2019

CF
2.44GHz
Span
10MHz
RBW
3MHz
VBW
10MHz
Sweep Time
20ms
Detector Type
Peak
CP BW
NaNHz



Sum=Total Power
PX=Port X

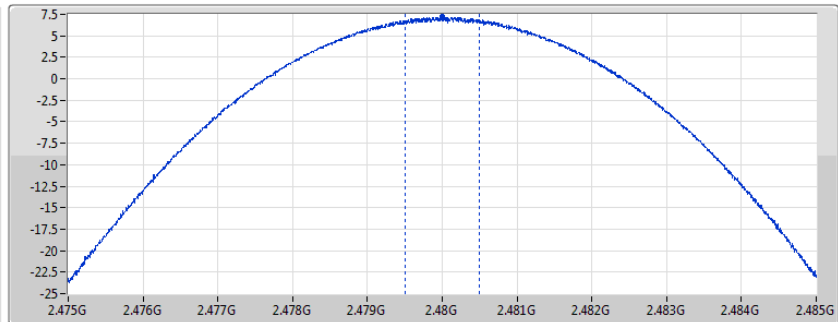
BT-EDR(3Mbps)

PK Power

2480MHz

17/08/2019

CF
2.48GHz
Span
10MHz
RBW
3MHz
VBW
10MHz
Sweep Time
20ms
Detector Type
Peak
CP BW
NaNHz



Sum=Total Power
PX=Port X



Summary

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

Result

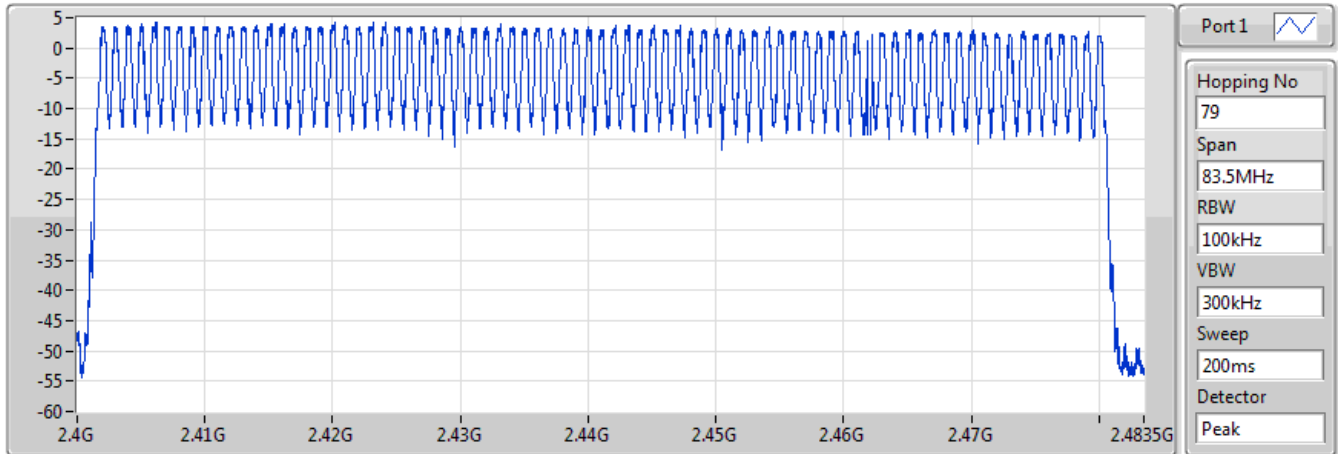
Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2440MHz	Pass	79	15

BT-BR(1Mbps)

2440MHz

Hopping Ch

17/08/2019



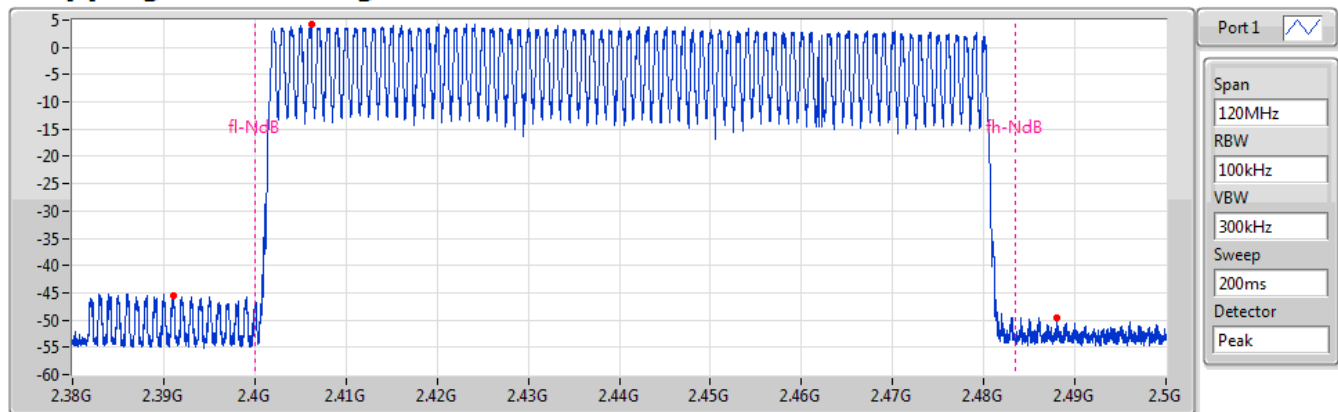
Hopping No	Limit
79	15

BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

17/08/2019



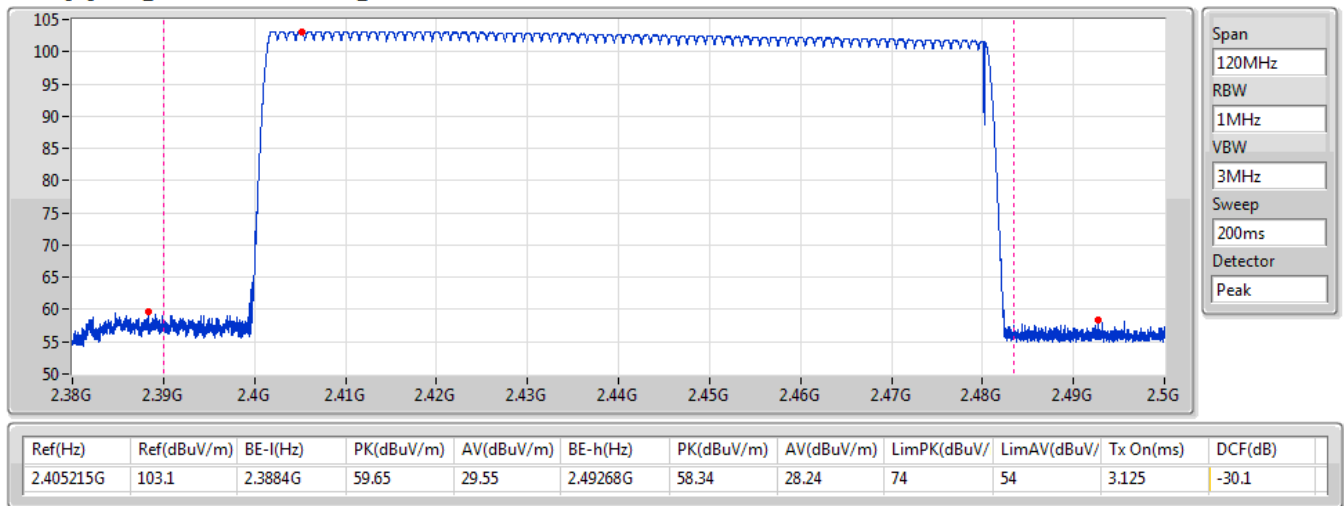
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-15.8	2.406175G	4.2	2.391055G	-45.55	2.488075G	-49.55

BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

17/08/2019

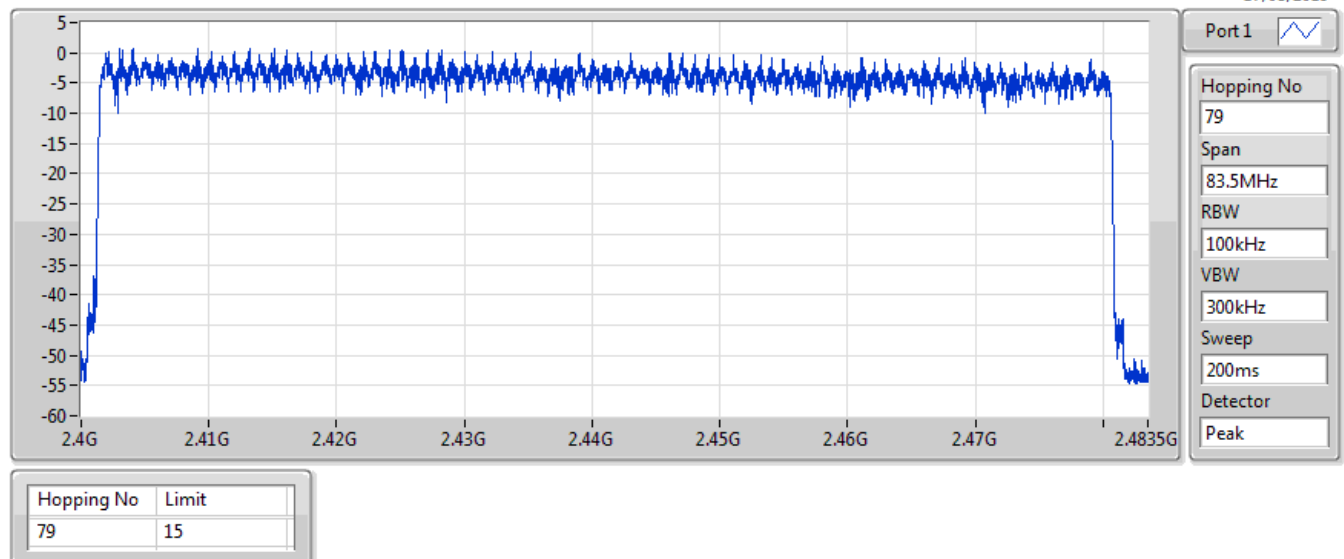


BT-EDR(2Mbps)

2440MHz

Hopping Ch

17/08/2019

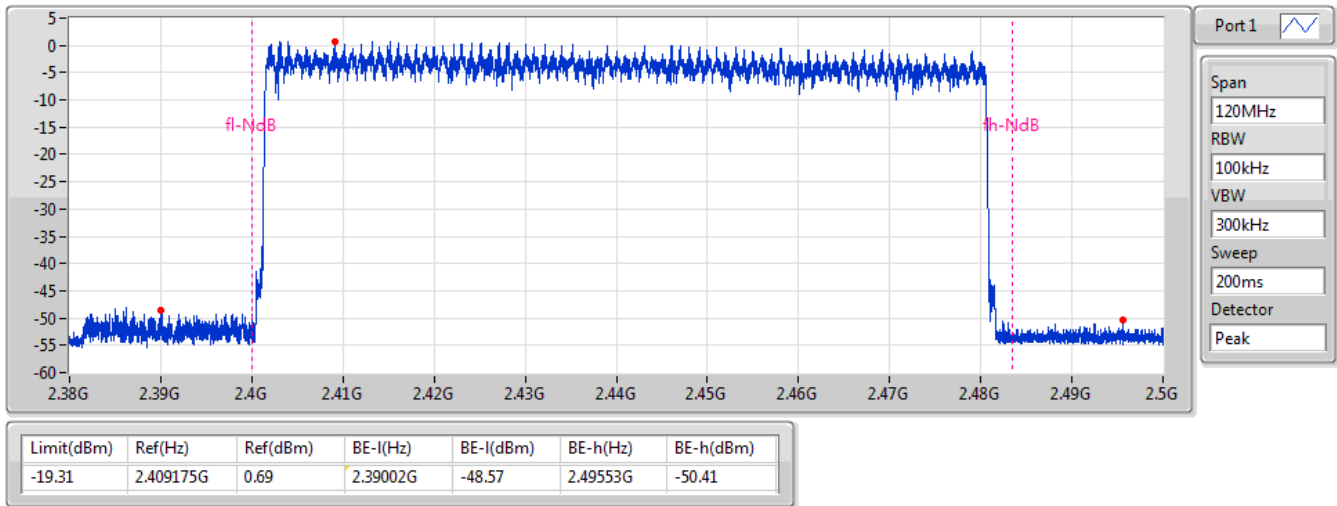


BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

17/08/2019

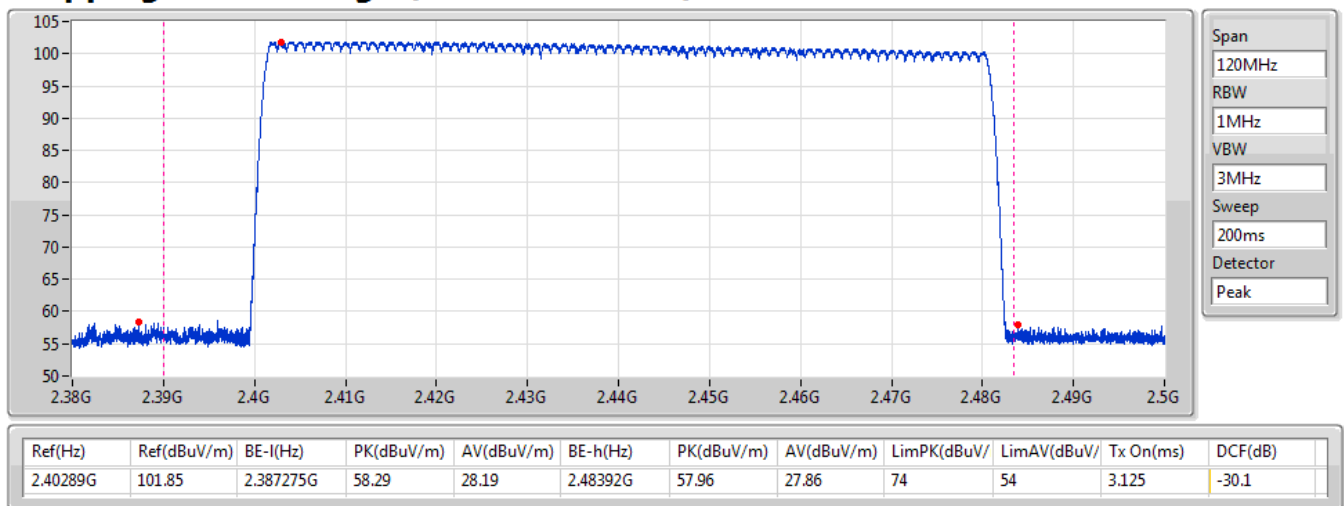


BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

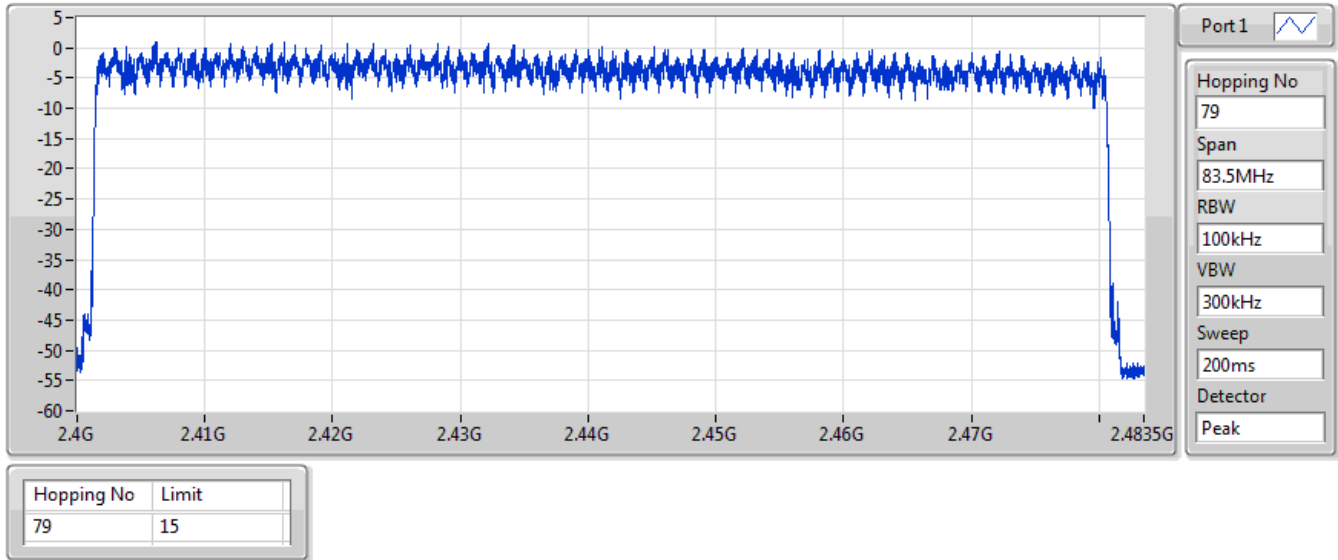
17/08/2019



BT-EDR(3Mbps) 2440MHz

Hopping Ch

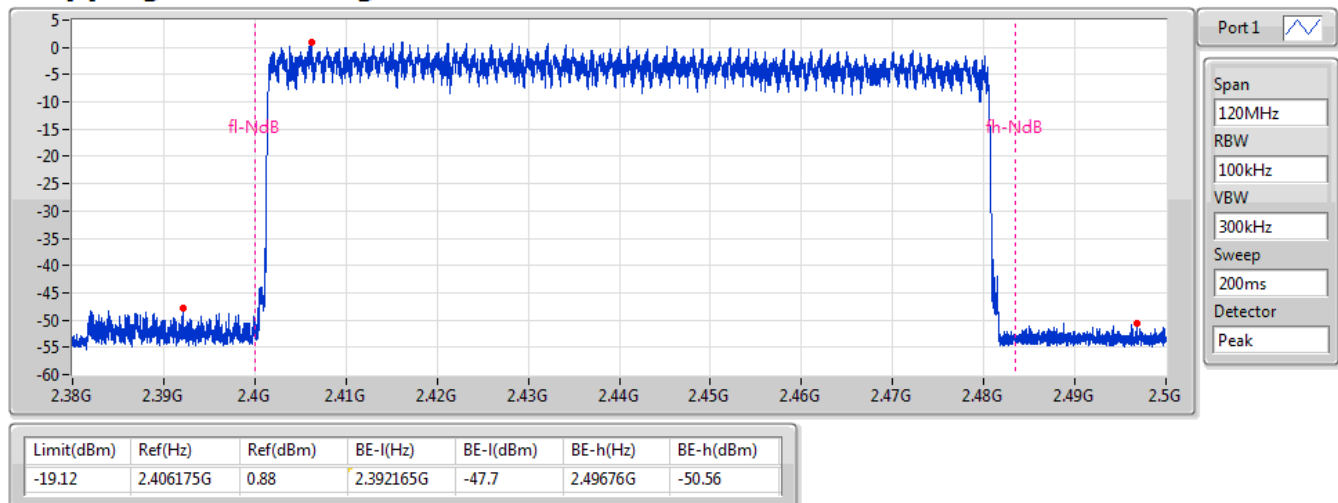
17/08/2019



BT-EDR(3Mbps) 2440MHz

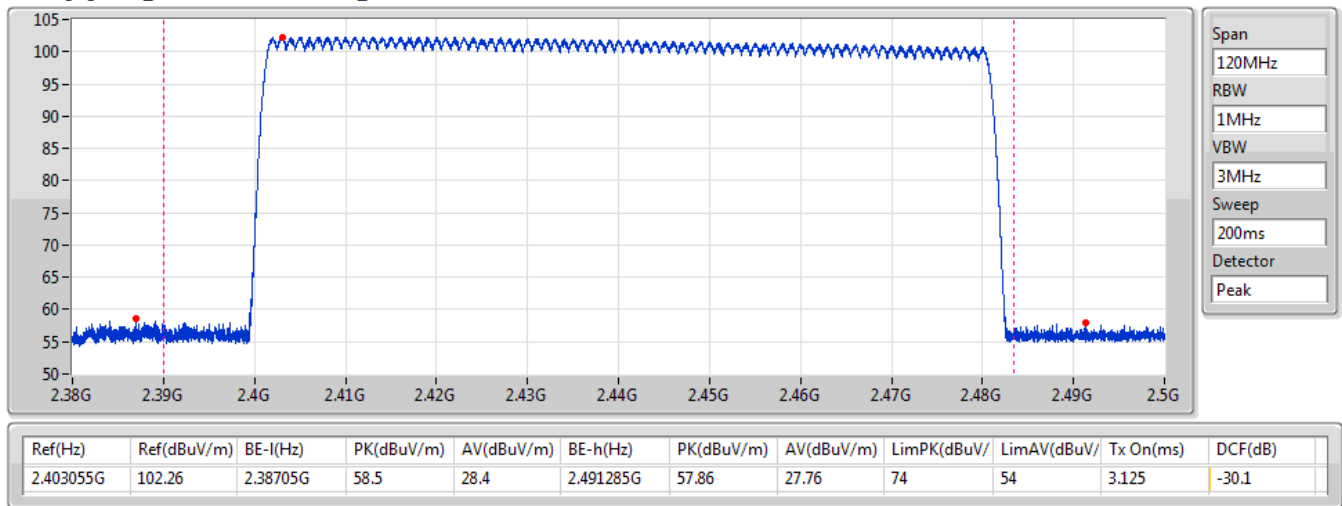
Hopping Ch Bandedge (Non-restricted Band)

17/08/2019



BT-EDR(3Mbps)**2440MHz****Hopping Ch Bandedge (Restricted Band)**

17/08/2019





Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	309.2466m
BT-EDR(2Mbps)	309.5664m
BT-EDR(3Mbps)	303.81m

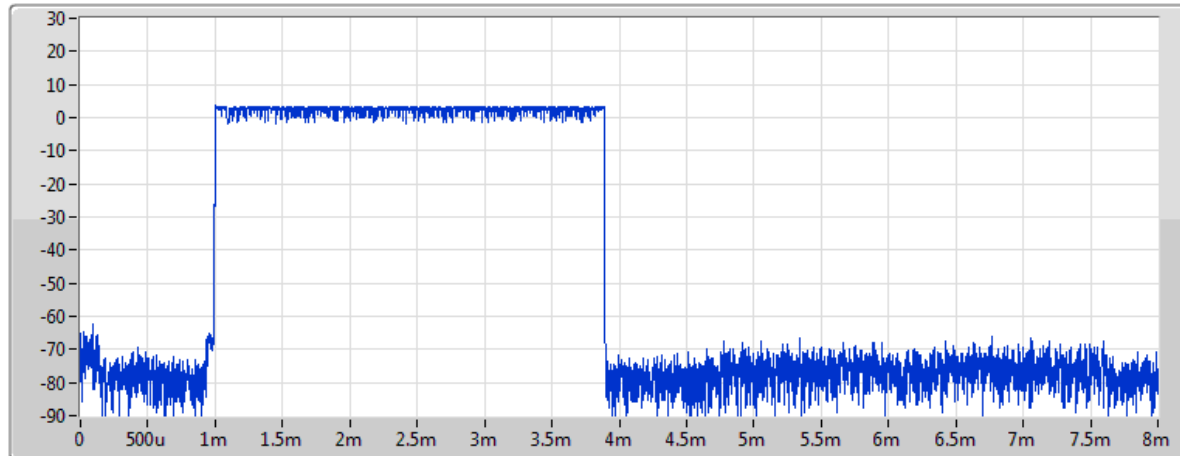
Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	309.2466m	400m	2.901m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	309.5664m	400m	2.904m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	303.81m	400m	2.85m

BT-BR(1Mbps)

2440MHz

17/08/2019



Port1

Ch Freq

2.44GHz

RBW

300kHz

VBW

1MHz

Sweep Time

8ms

TX Time

2.901ms

non AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	309.2466m	400m	2.901m

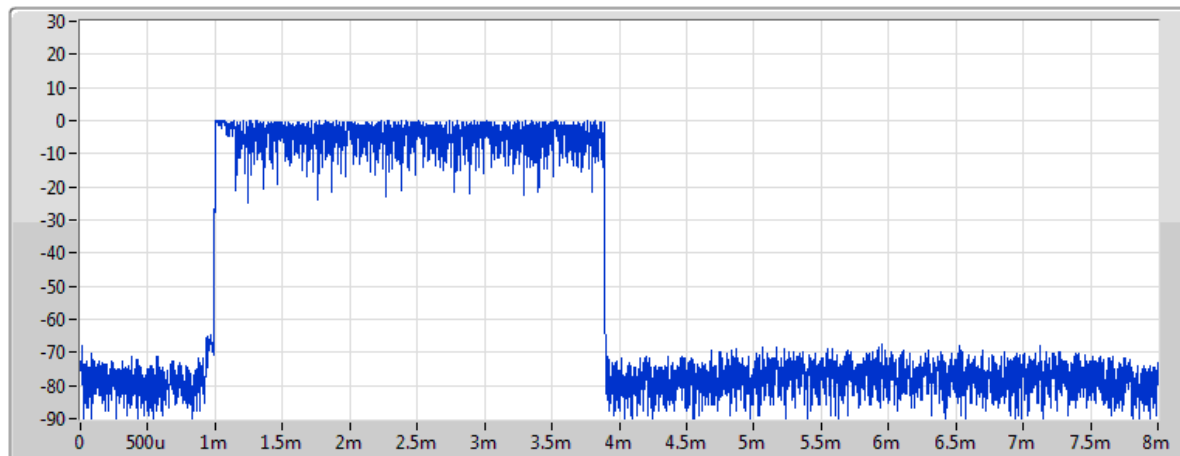
AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
0	154.6233m	400m	2.901m

BT-EDR(2Mbps)

2440MHz

17/08/2019



Port1

Ch Freq

2.44GHz

RBW

300kHz

VBW

1MHz

Sweep Time

8ms

TX Time

2.904ms

non AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	309.5664m	400m	2.904m

AFH Mode

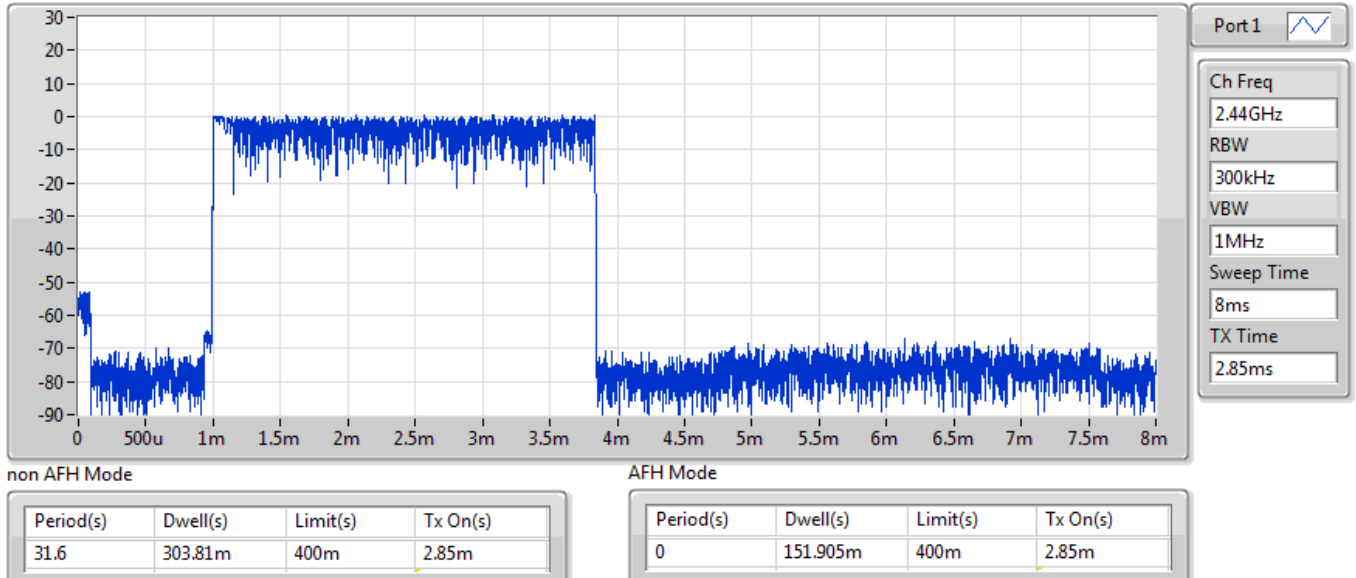
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
0	154.7832m	400m	2.904m

BT-EDR(3Mbps)

2440MHz

Dwell

17/08/2019





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.40209G	3.43	-16.57	863.83M	-52.68	2.39949G	-51.36	2.48533G	-51.99	24.67073G	-44.69	1
BT-EDR(2Mbps)	Pass	2.47999G	4.69	-15.31	884.85M	-52.84	2.39954G	-52.54	2.4836G	-51.53	24.37241G	-44.43	1
BT-EDR(3Mbps)	Pass	2.48003G	3.86	-16.14	921.55M	-53.41	2.39903G	-52.37	2.48353G	-51.77	16.53173G	-44.54	1

Result

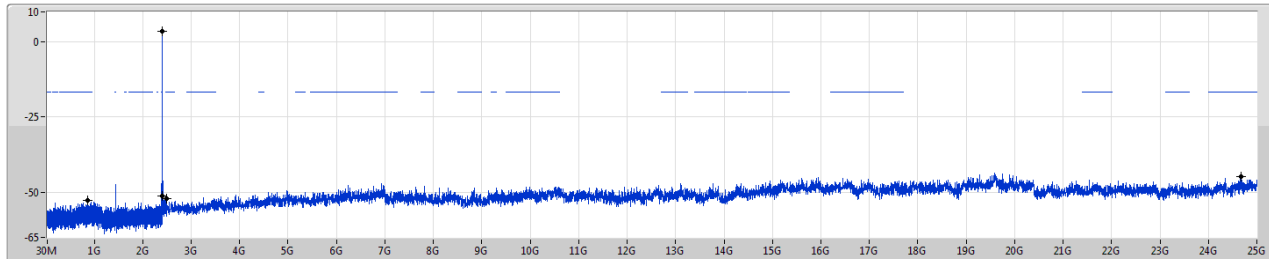
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40209G	3.43	-16.57	863.83M	-52.68	2.39949G	-51.36	2.48533G	-51.99	24.67073G	-44.69	1
2440MHz	Pass	2.44G	9.22	-10.78	2.03333G	-52.32	2.39997G	-50.92	2.48438G	-51.91	16.86664G	-45.46	1
2480MHz	Pass	2.48008G	5.89	-14.11	821.8M	-52.58	2.39839G	-52.28	2.48455G	-51.88	14.84596G	-44.32	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	6.87	-13.13	749.87M	-52.97	2.39982G	-47.22	2.48374G	-51.81	16.29815G	-44.57	1
2440MHz	Pass	2.44G	5.73	-14.27	869.75M	-52.83	2.39987G	-52.47	2.48488G	-51.82	16.96514G	-44.84	1
2480MHz	Pass	2.47999G	4.69	-15.31	884.85M	-52.84	2.39954G	-52.54	2.4836G	-51.53	24.37241G	-44.43	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40217G	4.67	-15.33	754.02M	-53.25	2.39959G	-50.07	2.48425G	-51.19	21.77761G	-44.03	1
2440MHz	Pass	2.43995G	5.67	-14.33	945.82M	-53.23	2.39986G	-51.48	2.48443G	-51.65	16.54862G	-45.12	1
2480MHz	Pass	2.48003G	3.86	-16.14	921.55M	-53.41	2.39903G	-52.37	2.48353G	-51.77	16.53173G	-44.54	1

BT-BR(1Mbps)

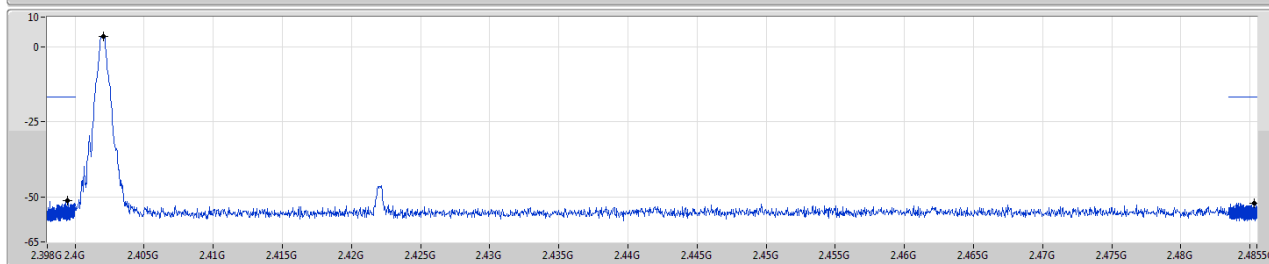
CSE NdB

2402MHz

17/08/2019



Port 1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

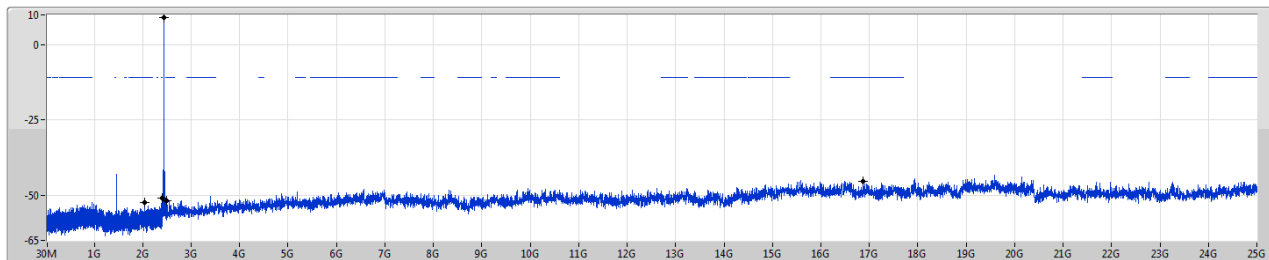
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40209G	3.43	-16.57	863.83M	-52.68	2.39949G	-51.36	2.48533G	-51.99	2.47073G	-44.69	1

BT-BR(1Mbps)

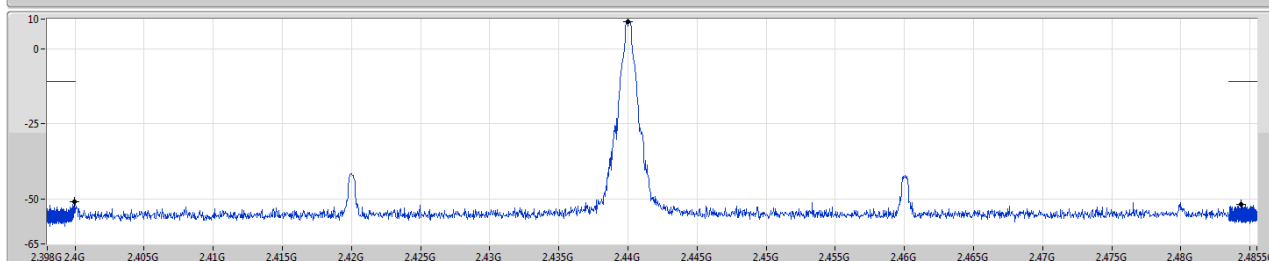
CSE NdB

2440MHz

17/08/2019



Port 1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44G	9.22	-10.78	2.03333G	-52.32	2.39997G	-50.92	2.48438G	-51.91	16.86664G	-45.46	1

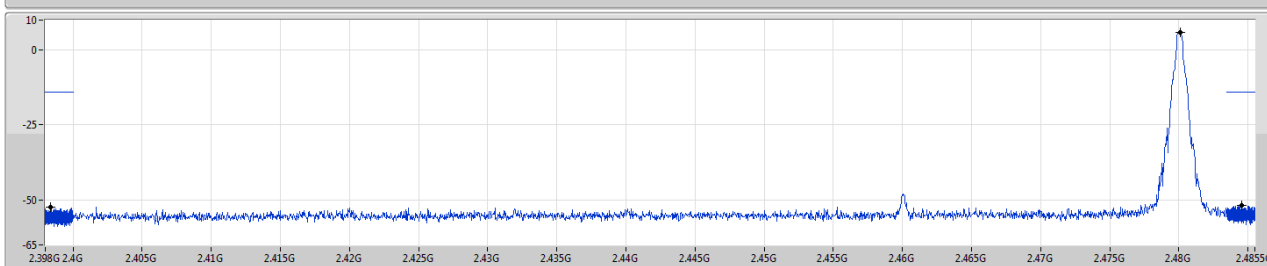
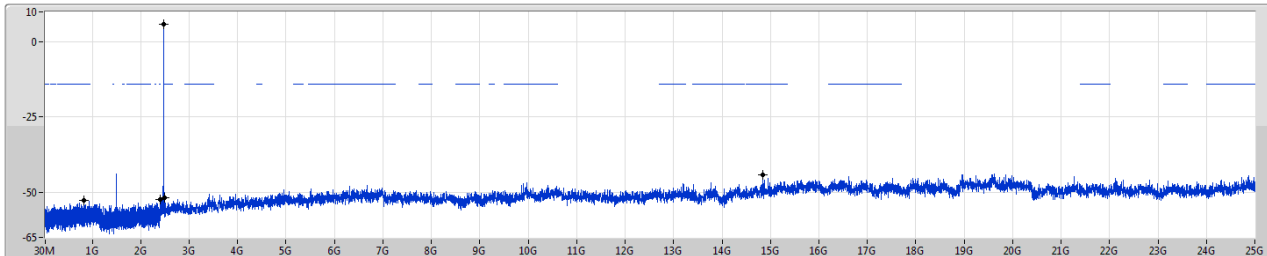
BT-BR(1Mbps)

2480MHz

CSE NdB

17/08/2019

Port1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.48008G	5.89	-14.11	821.8M	-52.58	2.39839G	-52.28	2.48455G	-51.88	14.84596G	-44.32	1

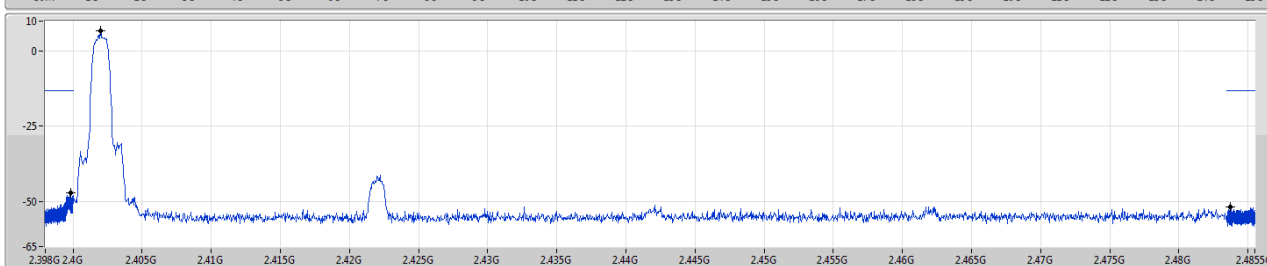
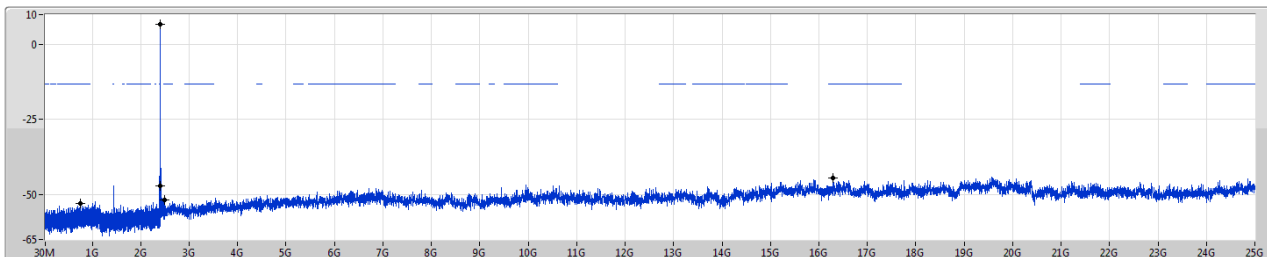
BT-EDR(2Mbps)

2402MHz

CSE NdB

17/08/2019

Port1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

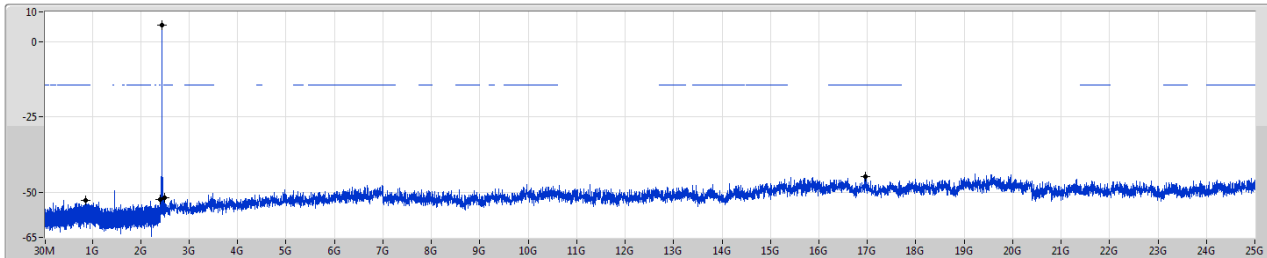
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.402G	6.87	-13.13	749.87M	-52.97	2.39982G	-47.22	2.48374G	-51.81	16.29815G	-44.57	1

BT-EDR(2Mbps)

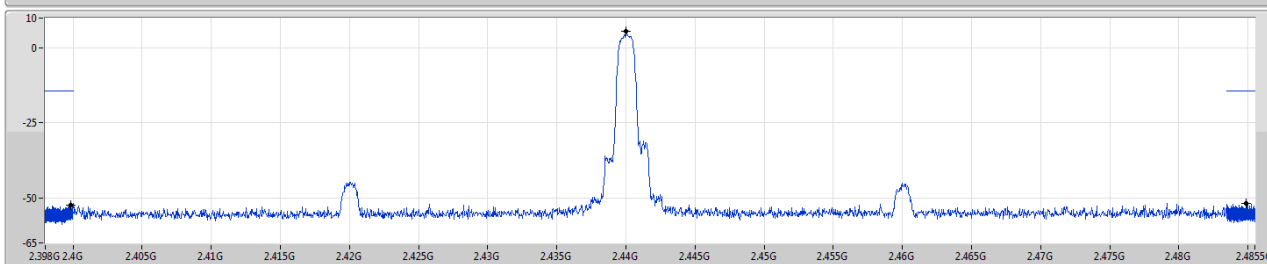
CSE NdB

2440MHz

17/08/2019



Port1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

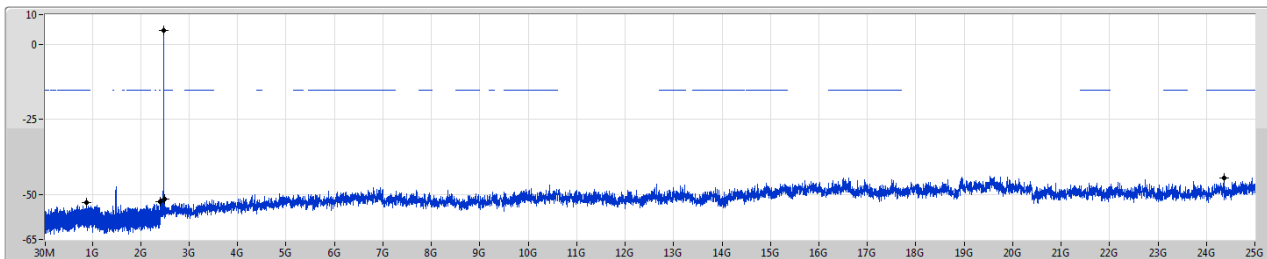
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44G	5.73	-14.27	869.75M	-52.83	2.39987G	-52.47	2.48488G	-51.82	16.96514G	-44.84	1

BT-EDR(2Mbps)

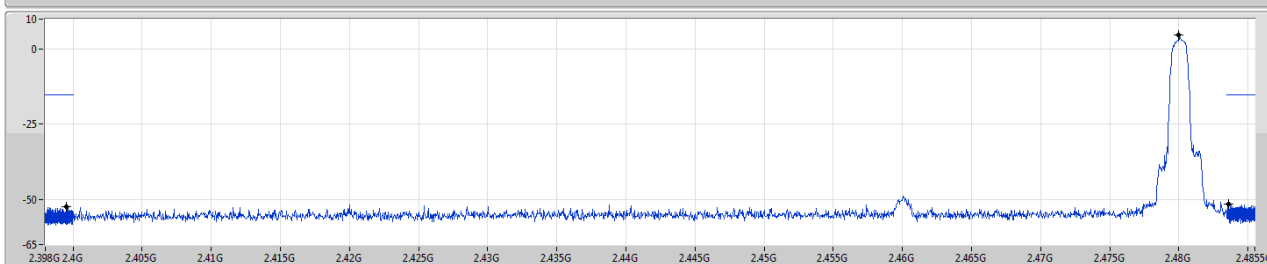
CSE NdB

2480MHz

17/08/2019



Port1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

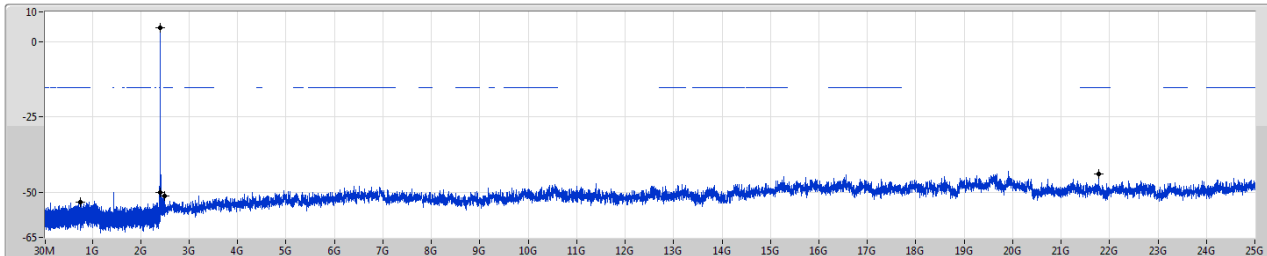
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.47999G	4.69	-15.31	884.85M	-52.84	2.39954G	-52.54	2.4836G	-51.53	24.37241G	-44.43	1

BT-EDR(3Mbps)

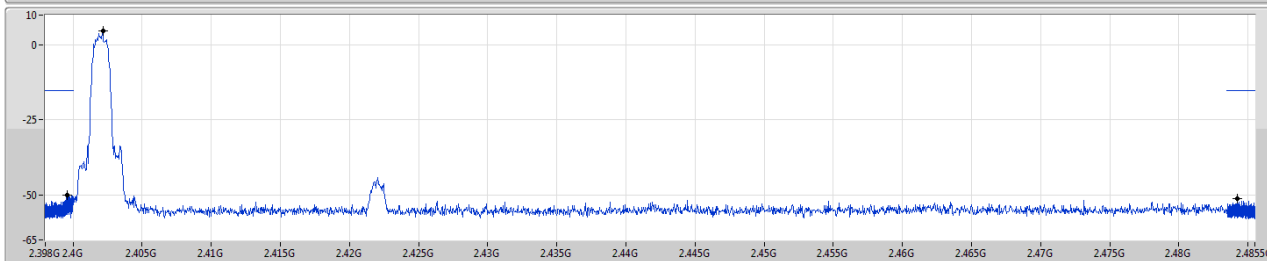
2402MHz

CSE NdB

17/08/2019



Port1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

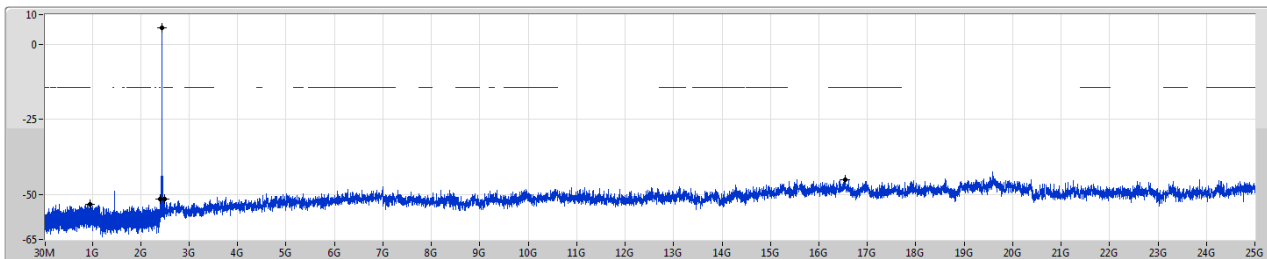
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40217G	4.67	-15.33	754.02M	-53.25	2.39999G	-50.07	2.48425G	-51.19	21.77761G	-44.03	1

BT-EDR(3Mbps)

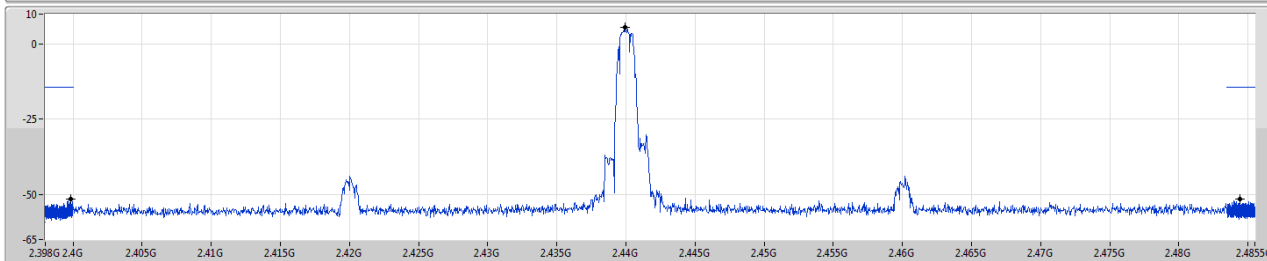
2440MHz

CSE NdB

17/08/2019



Port1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43995G	5.67	-14.33	945.82M	-53.23	2.39986G	-51.48	2.48443G	-51.65	16.54862G	-45.12	1

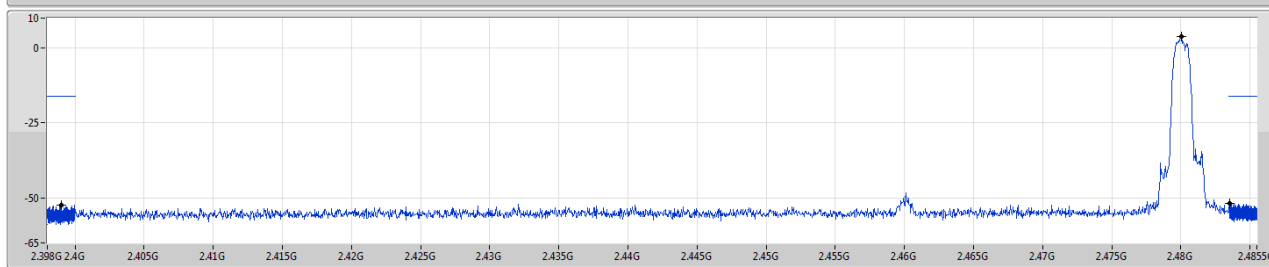
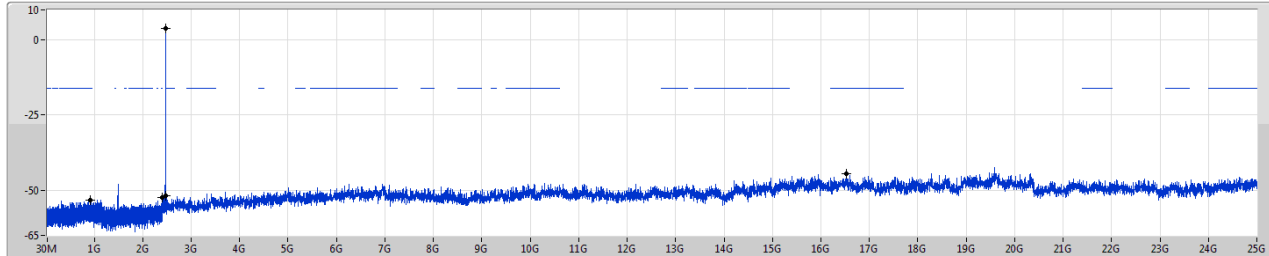
BT-EDR(3Mbps)

2480MHz

CSE NdB

17/08/2019

Port1



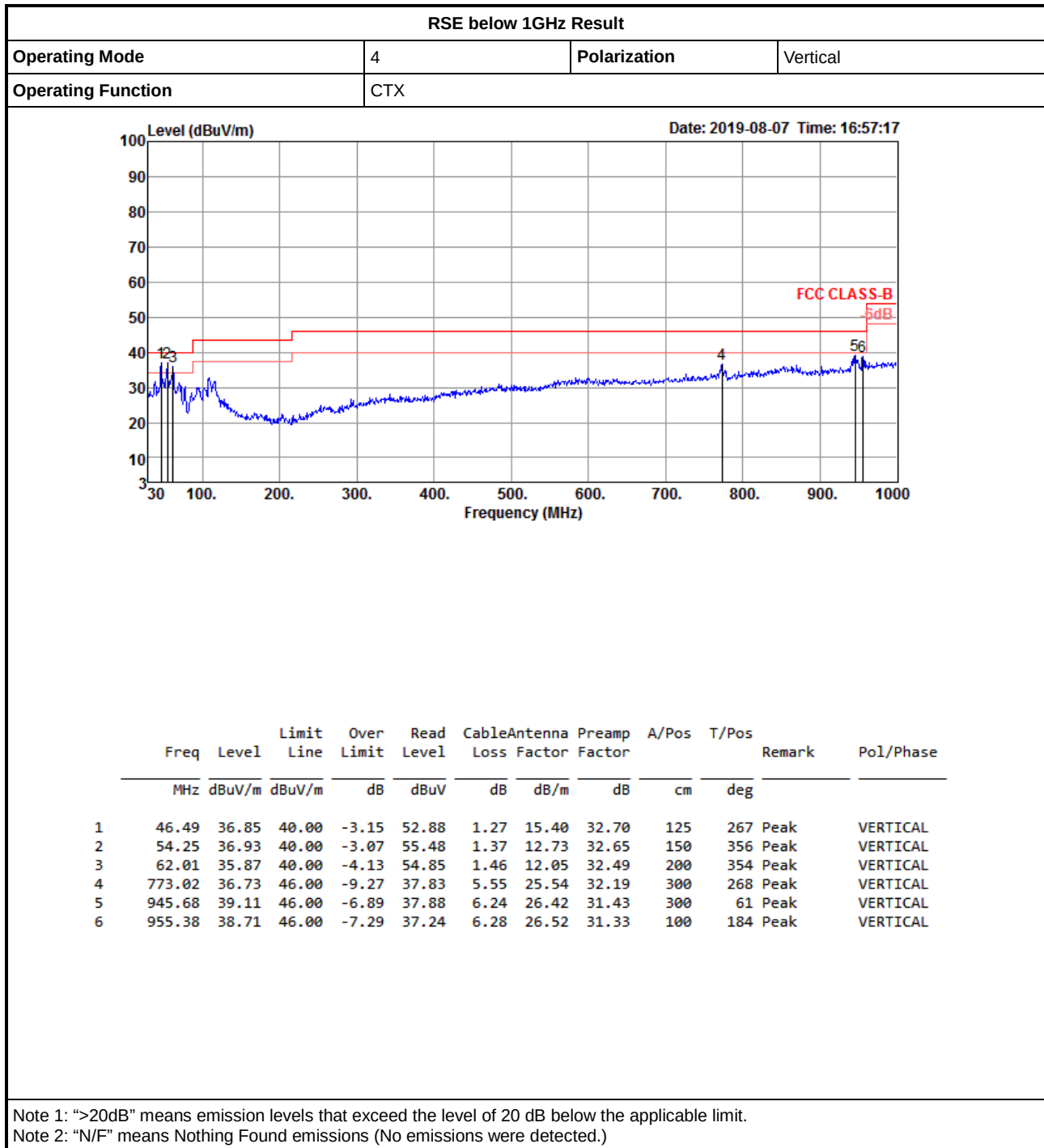
RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

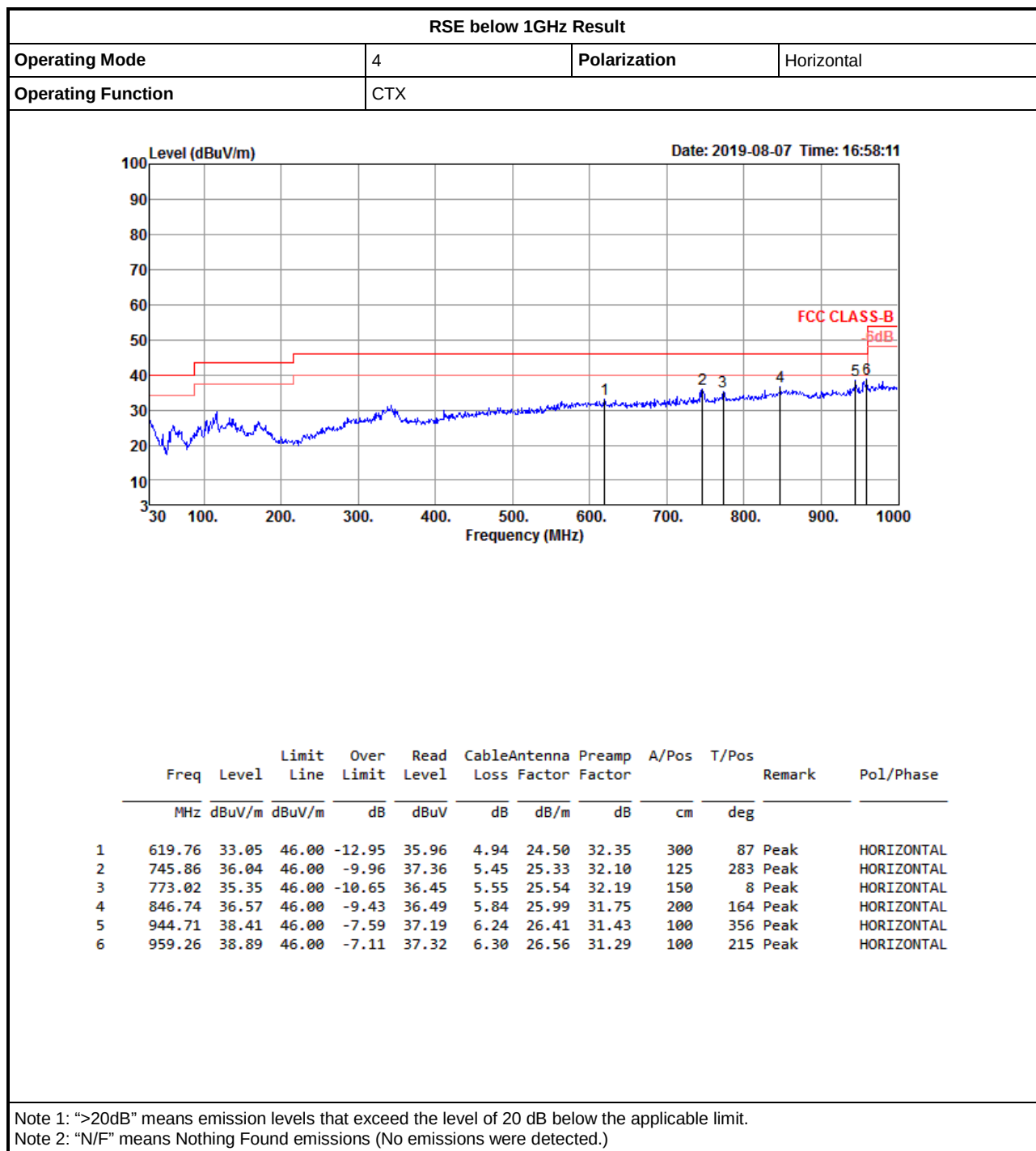
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.48003G	3.86	-16.14	921.55M	-53.41	2.39903G	-52.37	2.48353G	-51.77	16.53173G	-44.54	1



RSE below 1GHz Result

Appendix G.1







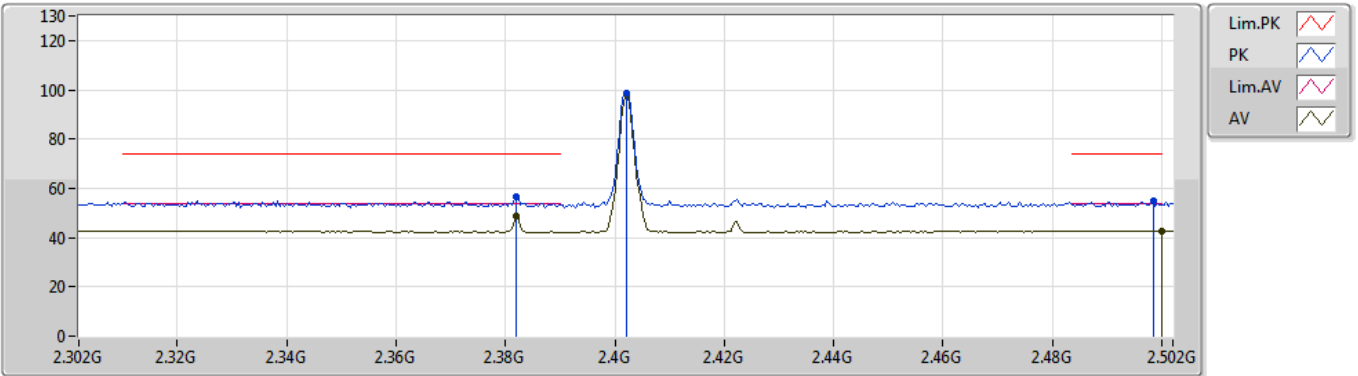
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	AV	2.4835G	52.97	54.00	-1.03	30.05	3	Horizontal	39	1.04	-

BT-BR(1Mbps)

15/08/2019

2402MHz_TX



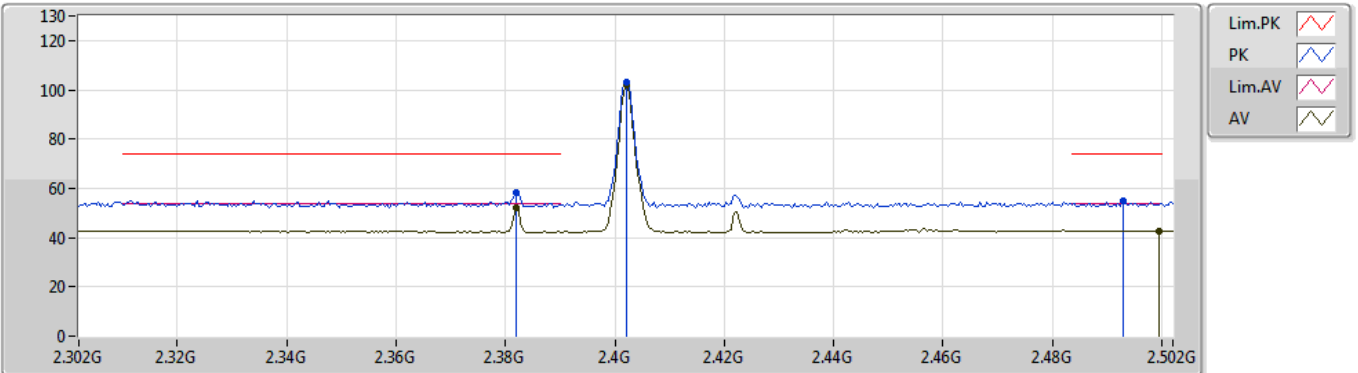
EUT_Z_1TX
Setting 4
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	2.382G	56.33	74.00	-17.67	29.85	3	Vertical	58	1.24	-	26.48			
AV	2.382G	48.62	54.00	-5.38	29.85	3	Vertical	58	1.24	-	18.77			
PK	2.402G	98.77	Inf	-Inf	29.84	3	Vertical	58	1.24	-	68.93			
AV	2.402G	97.91	Inf	-Inf	29.84	3	Vertical	58	1.24	-	68.07			
PK	2.4984G	54.74	74.00	-19.26	30.09	3	Vertical	58	1.24	-	24.65			
AV	2.5G	42.61	54.00	-11.39	30.09	3	Vertical	58	1.24	-	12.52			

BT-BR(1Mbps)

15/08/2019

2402MHz_TX



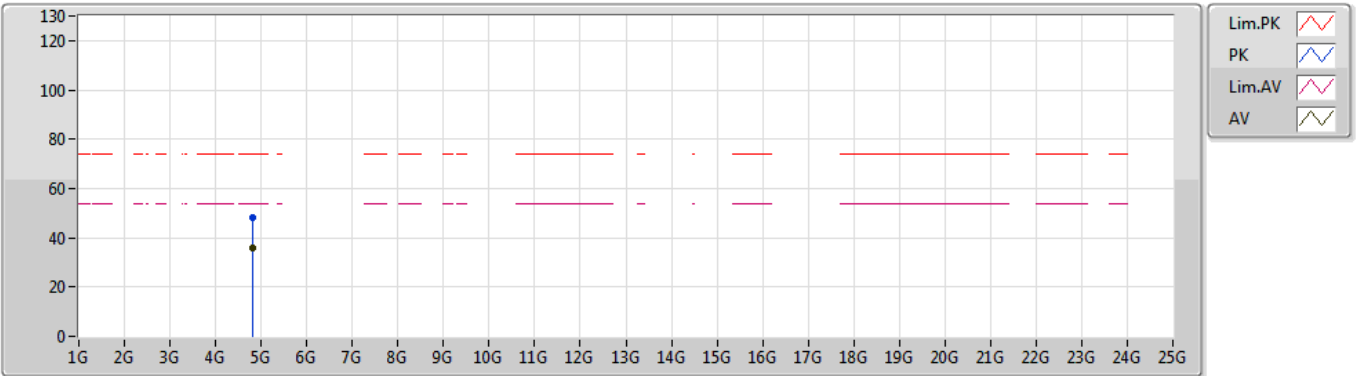
EUT Z_1TX
Setting 4
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.382G	58.36	74.00	-15.64	29.85	3	Horizontal	311	1.00	-	28.51
AV	2.382G	52.19	54.00	-1.81	29.85	3	Horizontal	311	1.00	-	22.34
PK	2.402G	102.88	Inf	-Inf	29.84	3	Horizontal	311	1.00	-	73.04
AV	2.402G	101.96	Inf	-Inf	29.84	3	Horizontal	311	1.00	-	72.12
PK	2.4928G	54.89	74.00	-19.11	30.08	3	Horizontal	311	1.00	-	24.81
AV	2.4996G	42.77	54.00	-11.23	30.09	3	Horizontal	311	1.00	-	12.68

BT-BR(1Mbps)

15/08/2019

2402MHz_TX



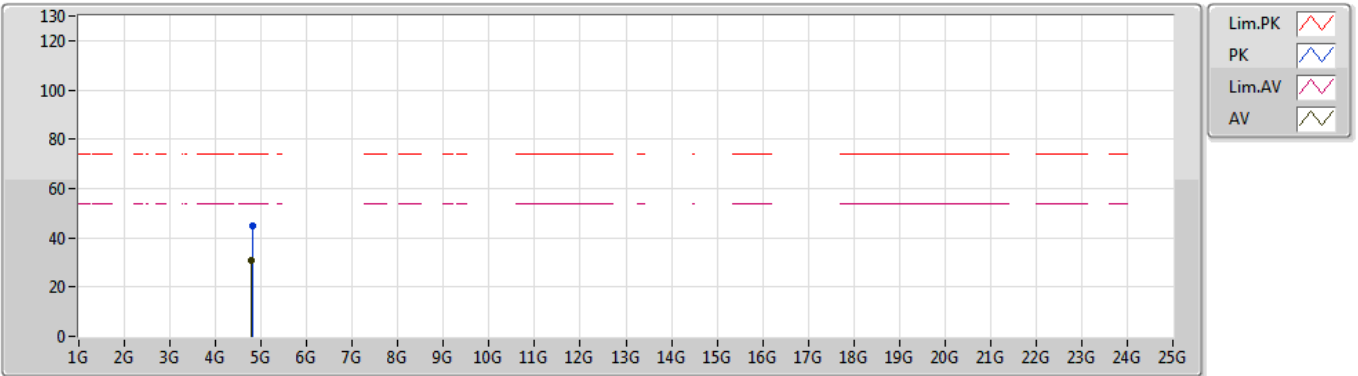
EUT_Z_1TX
Setting 4
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	4.79914G	48.14	74.00	-25.86	2.89	3	Vertical	1	1.68	-	45.25			
AV	4.81654G	35.86	54.00	-18.14	2.95	3	Vertical	1	1.68	-	32.91			

BT-BR(1Mbps)

15/08/2019

2402MHz_TX



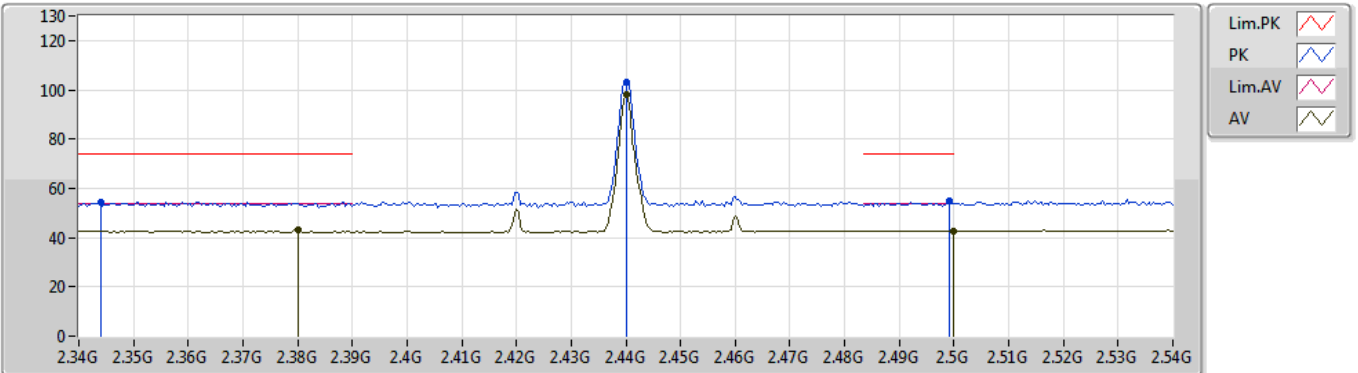
EUT_Z_1TX
Setting 4
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	4.80328G	44.55	74.00	-29.45	2.90	3	Horizontal	346	1.04	-	41.65			
AV	4.79626G	30.93	54.00	-23.07	2.89	3	Horizontal	346	1.04	-	28.04			

BT-BR(1Mbps)

15/08/2019

2440MHz_TX



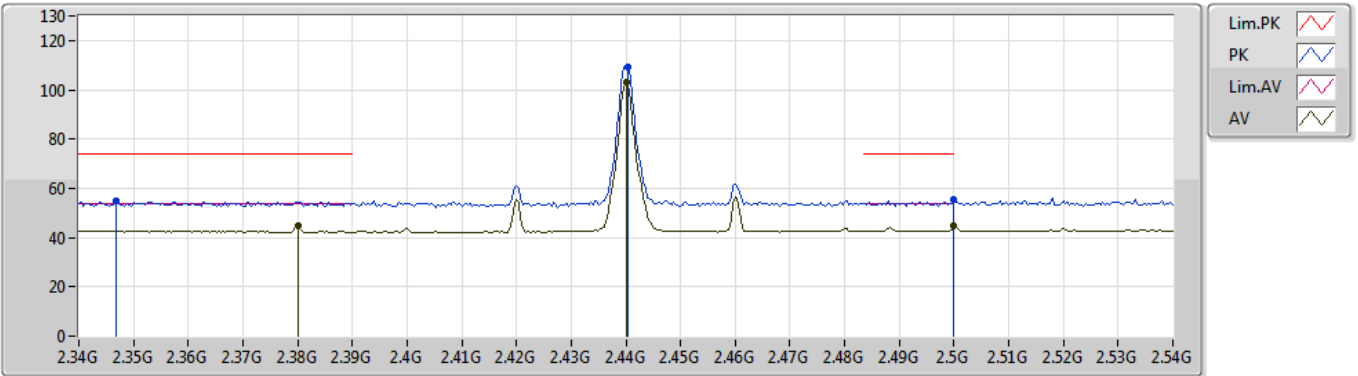
EUT_Z_1TX
Setting a
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.344G	54.49	74.00	-19.51	29.87	3	Vertical	54	1.02	-	24.62
AV	2.38G	43.41	54.00	-10.59	29.85	3	Vertical	54	1.02	-	13.56
PK	2.44G	103.38	Inf	-Inf	29.94	3	Vertical	54	1.02	-	73.44
AV	2.44G	97.86	Inf	-Inf	29.94	3	Vertical	54	1.02	-	67.92
PK	2.4992G	54.98	74.00	-19.02	30.09	3	Vertical	54	1.02	-	24.89
AV	2.5G	42.71	54.00	-11.29	30.09	3	Vertical	54	1.02	-	12.62

BT-BR(1Mbps)

15/08/2019

2440MHz_TX



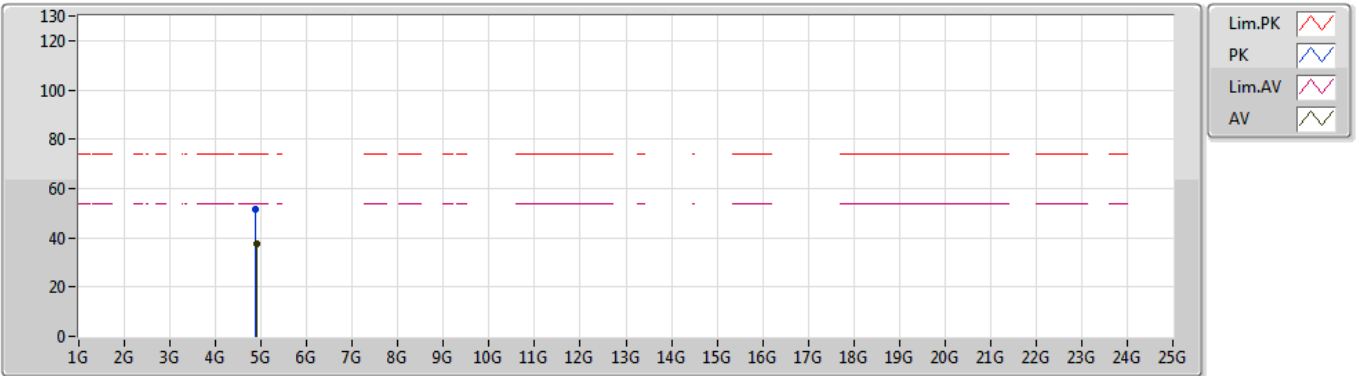
EUT_Z_1TX
Setting a
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3468G	54.92	74.00	-19.08	29.86	3	Horizontal	46	1.10	-	25.06
AV	2.38G	44.55	54.00	-9.45	29.85	3	Horizontal	46	1.10	-	14.70
PK	2.4404G	109.45	Inf	-Inf	29.94	3	Horizontal	46	1.10	-	79.51
AV	2.44G	103.37	Inf	-Inf	29.94	3	Horizontal	46	1.10	-	73.43
PK	2.5G	55.71	74.00	-18.29	30.09	3	Horizontal	46	1.10	-	25.62
AV	2.5G	44.85	54.00	-9.15	30.09	3	Horizontal	46	1.10	-	14.76

BT-BR(1Mbps)

15/08/2019

2440MHz_TX



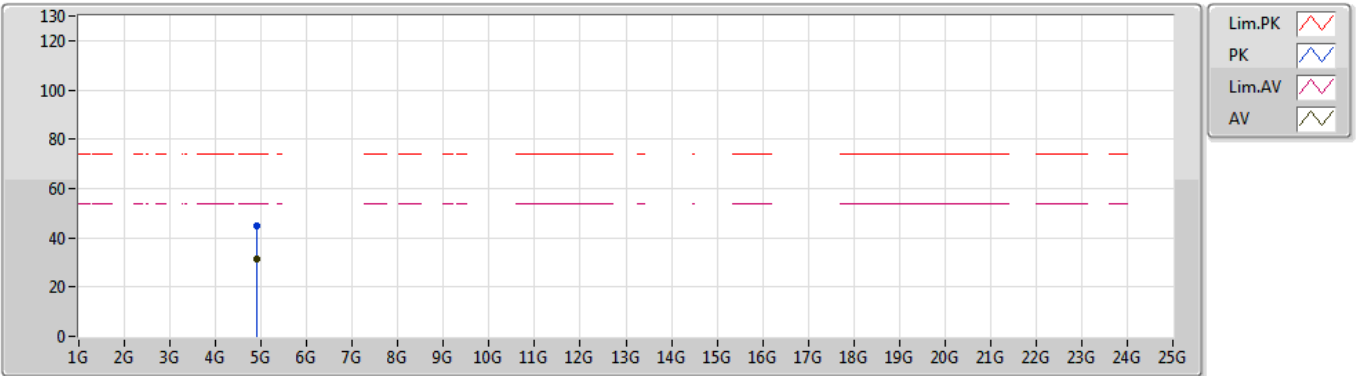
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Setting a
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	4.88684G	51.34	74.00	-22.66	3.15	3	Vertical	0	2.05	-	48.19			
AV	4.89044G	37.65	54.00	-16.35	3.17	3	Vertical	0	2.05	-	34.48			

BT-BR(1Mbps)

15/08/2019

2440MHz_TX



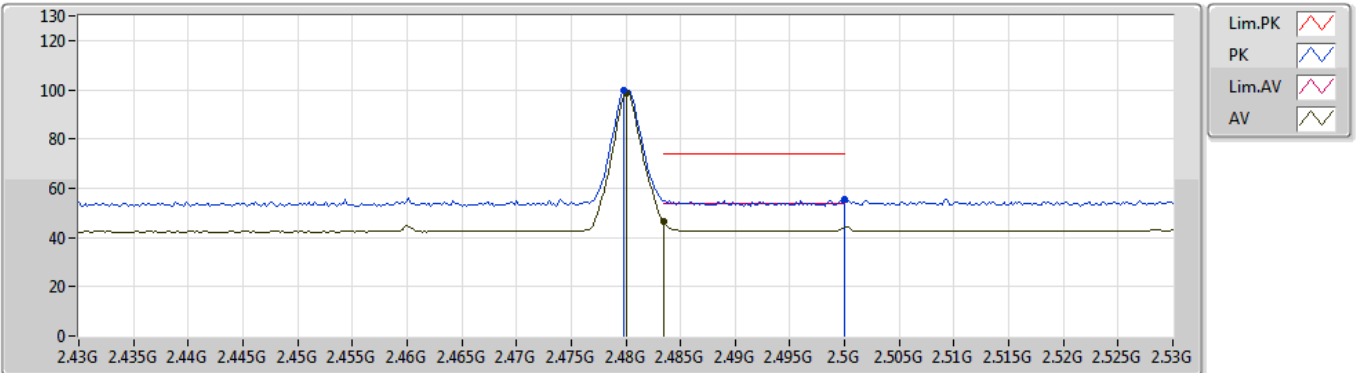
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Setting a
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	4.89086G	44.62	74.00	-29.38	3.17	3	Horizontal	3	1.50	-	41.45			
AV	4.88978G	31.45	54.00	-22.55	3.17	3	Horizontal	3	1.50	-	28.28			

BT-BR(1Mbps)

15/08/2019

2480MHz_TX



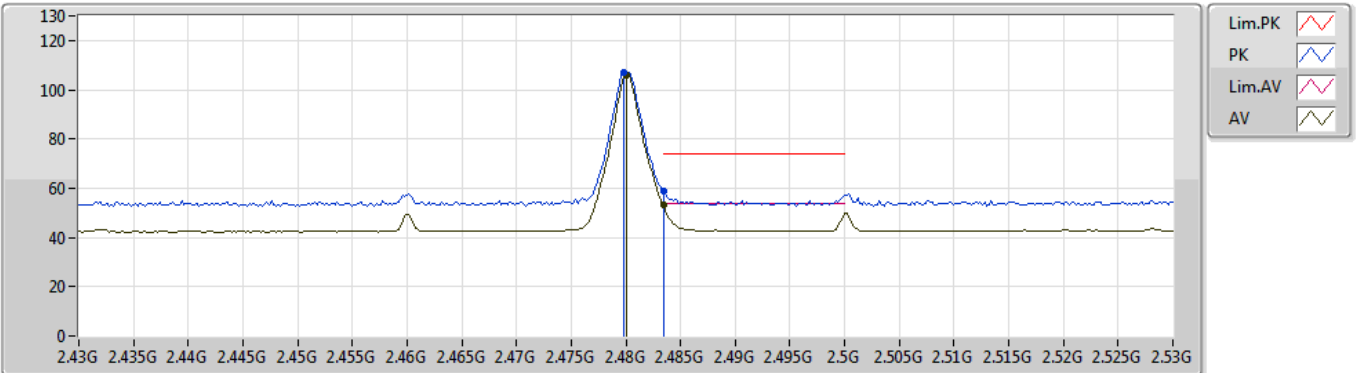
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Setting 8
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.4798G	99.49	Inf	-Inf	30.04	3	Vertical	49	1.01	-	69.45
AV	2.48G	98.60	Inf	-Inf	30.04	3	Vertical	49	1.01	-	68.56
PK	2.5G	55.24	74.00	-18.76	30.09	3	Vertical	49	1.01	-	25.15
AV	2.4835G	46.58	54.00	-7.42	30.05	3	Vertical	49	1.01	-	16.53

BT-BR(1Mbps)

15/08/2019

2480MHz_TX



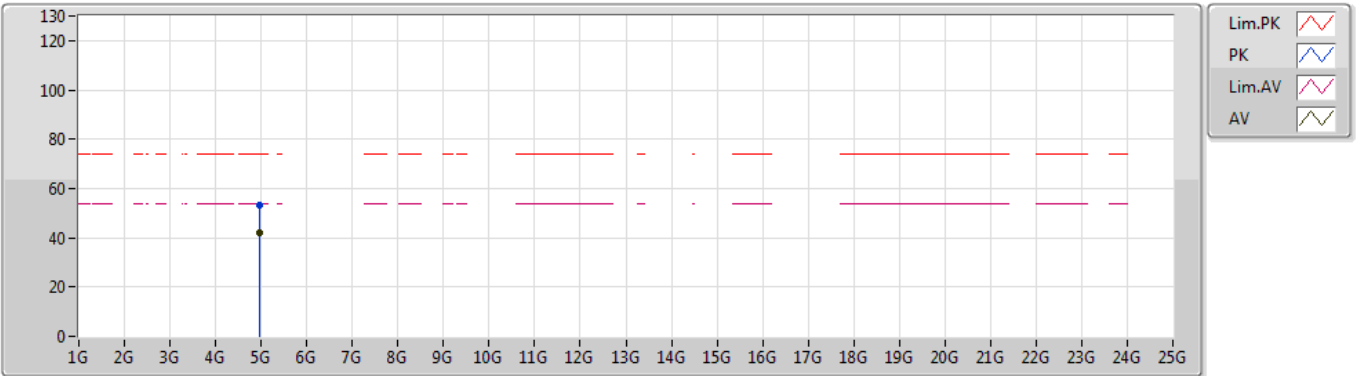
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Setting 8
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.4798G	106.97	Inf	-Inf	30.04	3	Horizontal	39	1.04	-	76.93
AV	2.48G	106.07	Inf	-Inf	30.04	3	Horizontal	39	1.04	-	76.03
PK	2.4835G	58.75	74.00	-15.25	30.05	3	Horizontal	39	1.04	-	28.70
AV	2.4835G	52.97	54.00	-1.03	30.05	3	Horizontal	39	1.04	-	22.92

BT-BR(1Mbps)

16/08/2019

2480MHz_TX



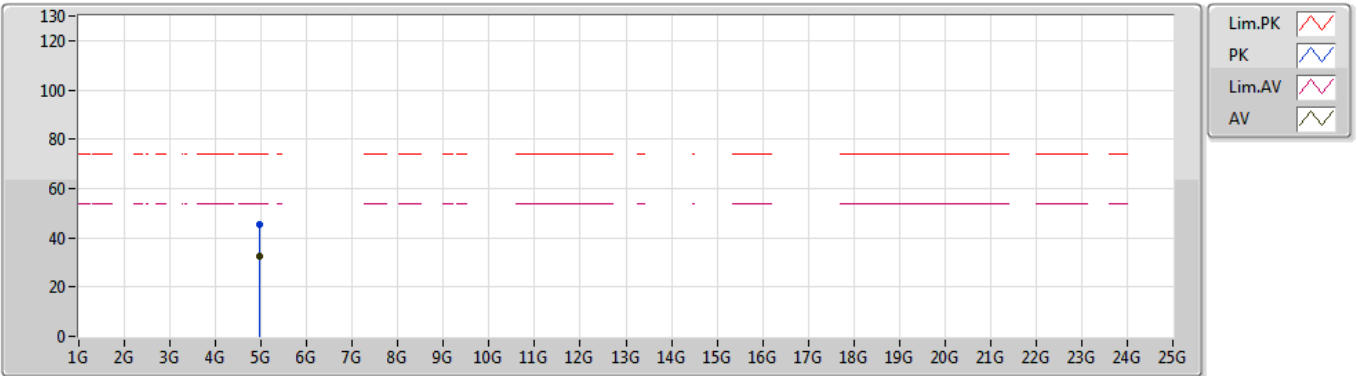
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Setting 8
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	4.9792G	53.30	74.00	-20.70	3.38	3	Vertical	101	1.71	-	49.92			
AV	4.9784G	42.23	54.00	-11.77	3.38	3	Vertical	101	1.71	-	38.85			

BT-BR(1Mbps)

15/08/2019

2480MHz_TX



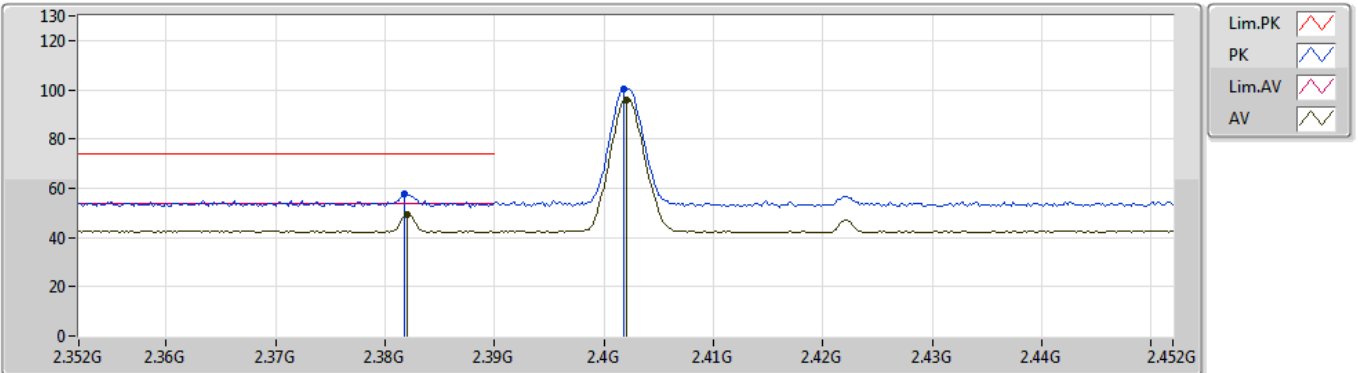
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Setting 8
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	4.97452G	45.11	74.00	-28.89	3.37	3	Horizontal	243	1.24	-	41.74			
AV	4.9714G	32.43	54.00	-21.57	3.36	3	Horizontal	243	1.24	-	29.07			

BT-EDR(3Mbps)

15/08/2019

2402MHz_TX



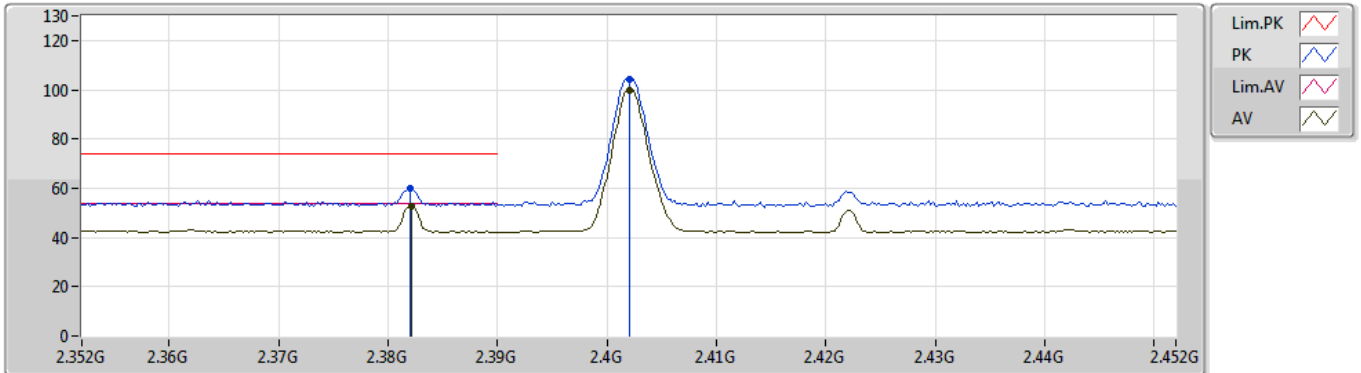
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Setting 8
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3818G	57.84	74.00	-16.16	29.85	3	Vertical	59	1.23	-	27.99
AV	2.382G	49.08	54.00	-4.92	29.85	3	Vertical	59	1.23	-	19.23
PK	2.4018G	100.14	Inf	-Inf	29.84	3	Vertical	59	1.23	-	70.30
AV	2.402G	95.98	Inf	-Inf	29.84	3	Vertical	59	1.23	-	66.14

BT-EDR(3Mbps)

15/08/2019

2402MHz_TX



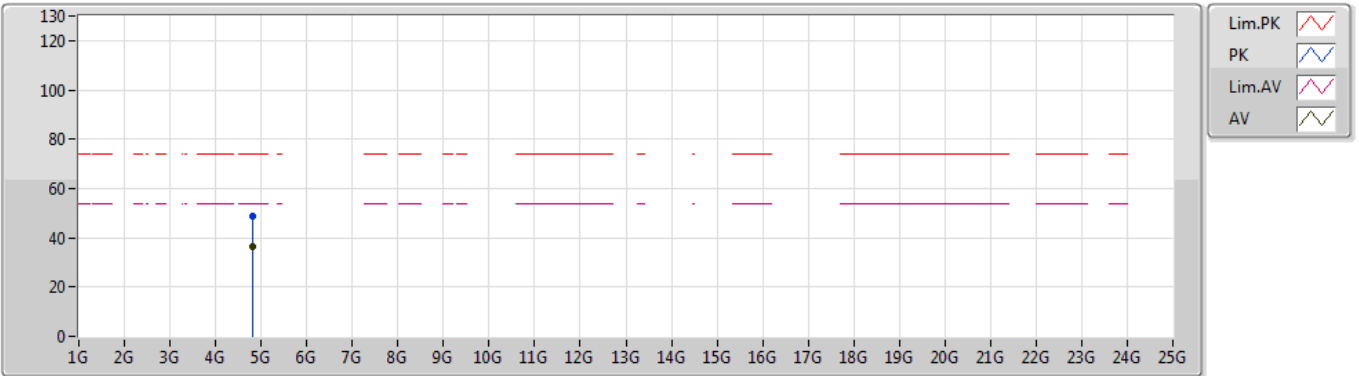
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Setting 8
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.382G	59.90	74.00	-14.10	29.85	3	Horizontal	310	1.01	-	30.05
AV	2.3822G	52.68	54.00	-1.32	29.85	3	Horizontal	310	1.01	-	22.83
PK	2.402G	104.22	Inf	-Inf	29.84	3	Horizontal	310	1.01	-	74.38
AV	2.402G	100.02	Inf	-Inf	29.84	3	Horizontal	310	1.01	-	70.18

BT-EDR(3Mbps)

16/08/2019

2402MHz_TX



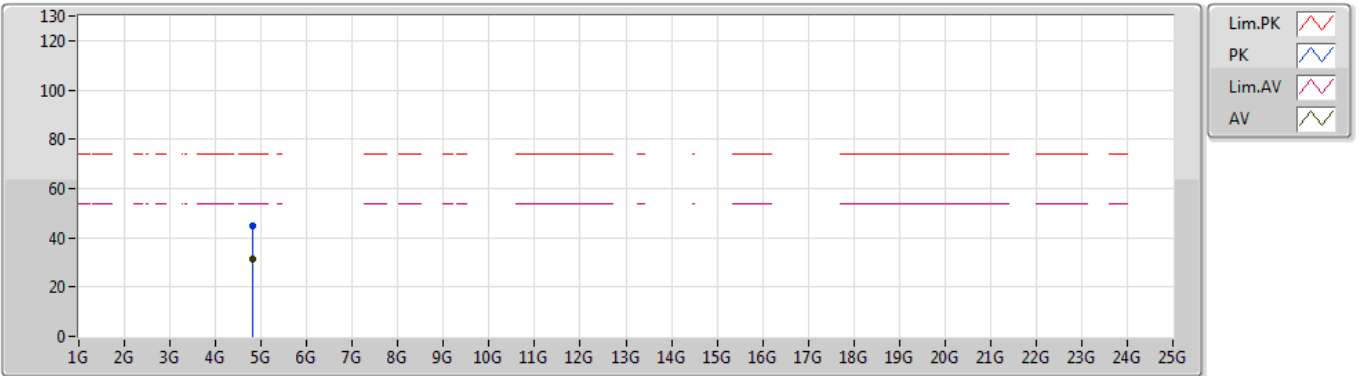
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Setting 8
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	4.8066G	49.00	74.00	-25.00	2.91	3	Vertical	303	2.00	-	46.09			
AV	4.8096G	36.56	54.00	-17.44	2.92	3	Vertical	303	2.00	-	33.64			

BT-EDR(3Mbps)

16/08/2019

2402MHz_TX



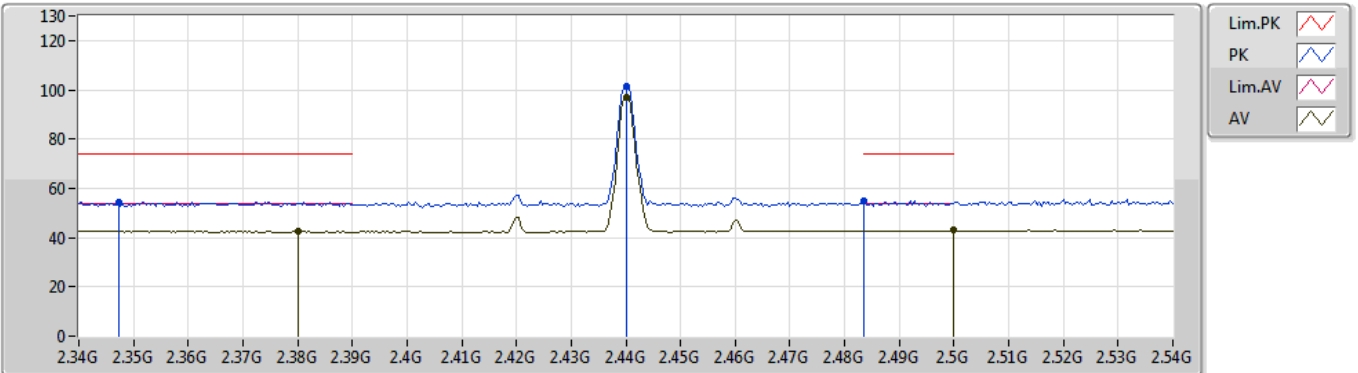
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Setting 8
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	4.8098G	45.10	74.00	-28.90	2.92	3	Horizontal	310	1.50	-	42.18			
AV	4.804G	31.19	54.00	-22.81	2.90	3	Horizontal	310	1.50	-	28.29			

BT-EDR(3Mbps)

15/08/2019

2440MHz_TX



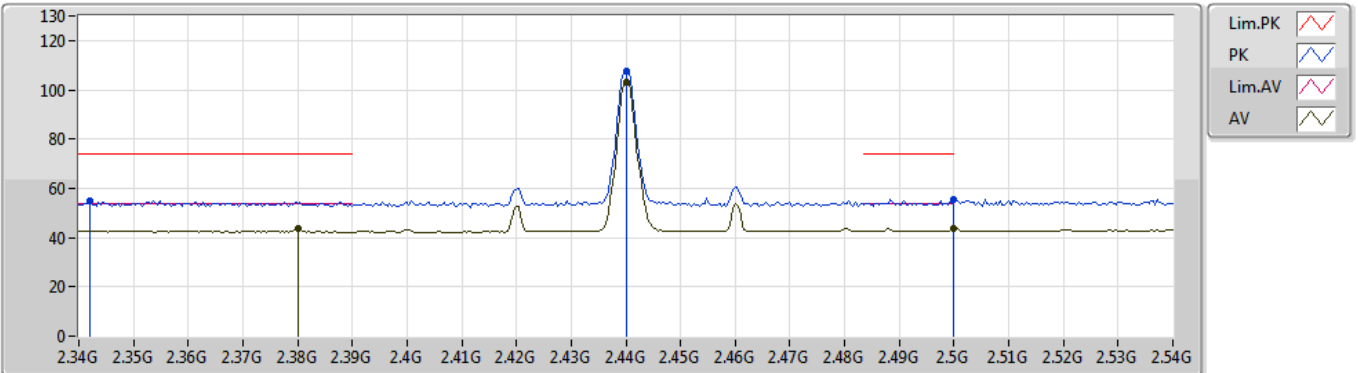
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Setting a
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.3472G	54.62	74.00	-19.38	29.86	3	Vertical	50	1.01	-	24.76
AV	2.38G	42.69	54.00	-11.31	29.85	3	Vertical	50	1.01	-	12.84
PK	2.44G	101.27	Inf	-Inf	29.94	3	Vertical	50	1.01	-	71.33
AV	2.44G	97.17	Inf	-Inf	29.94	3	Vertical	50	1.01	-	67.23
PK	2.4835G	54.87	74.00	-19.13	30.05	3	Vertical	50	1.01	-	24.82
AV	2.5G	42.92	54.00	-11.08	30.09	3	Vertical	50	1.01	-	12.83

BT-EDR(3Mbps)

15/08/2019

2440MHz_TX



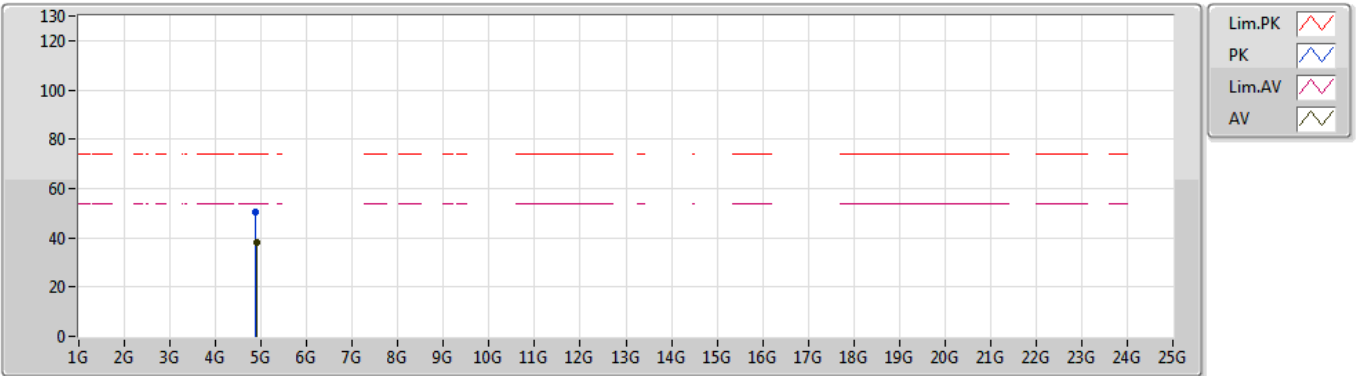
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Setting a
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.342G	54.95	74.00	-19.05	29.87	3	Horizontal	50	1.10	-	25.08
AV	2.38G	43.43	54.00	-10.57	29.85	3	Horizontal	50	1.10	-	13.58
PK	2.44G	107.52	Inf	-Inf	29.94	3	Horizontal	50	1.10	-	77.58
AV	2.44G	103.38	Inf	-Inf	29.94	3	Horizontal	50	1.10	-	73.44
PK	2.5G	55.28	74.00	-18.72	30.09	3	Horizontal	50	1.10	-	25.19
AV	2.5G	43.54	54.00	-10.46	30.09	3	Horizontal	50	1.10	-	13.45

BT-EDR(3Mbps)

15/08/2019

2440MHz_TX



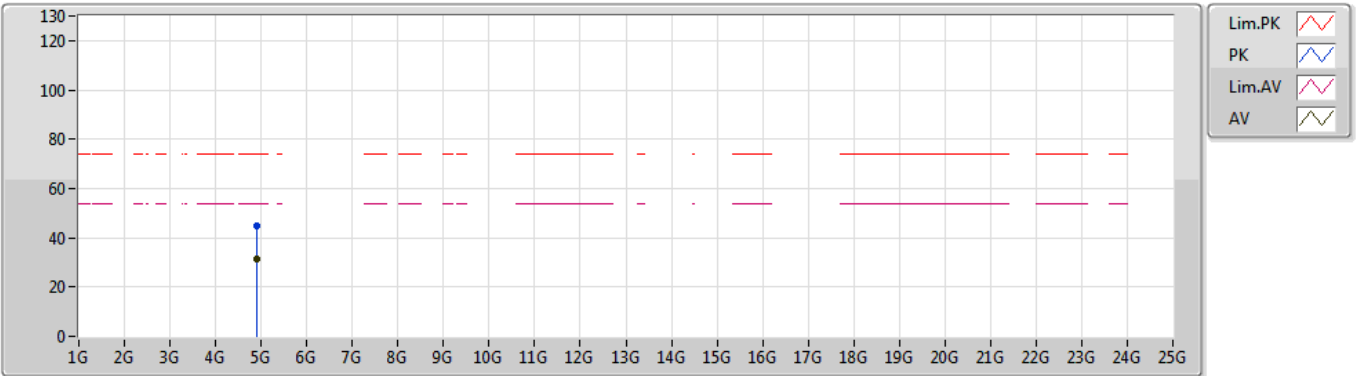
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Setting a
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	4.88666G	50.42	74.00	-23.58	3.15	3	Vertical	86	2.18	-	47.27			
AV	4.89392G	37.86	54.00	-16.14	3.18	3	Vertical	86	2.18	-	34.68			

BT-EDR(3Mbps)

15/08/2019

2440MHz_TX



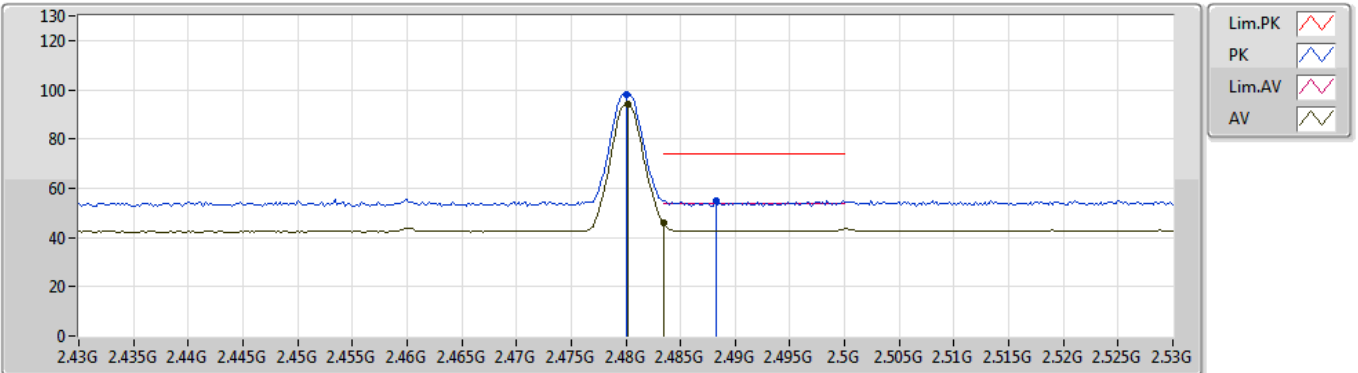
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Setting a
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	4.88936G	44.73	74.00	-29.27	3.17	3	Horizontal	167	1.68	-	41.56			
AV	4.89296G	31.65	54.00	-22.35	3.18	3	Horizontal	167	1.68	-	28.47			

BT-EDR(3Mbps)

15/08/2019

2480MHz_TX



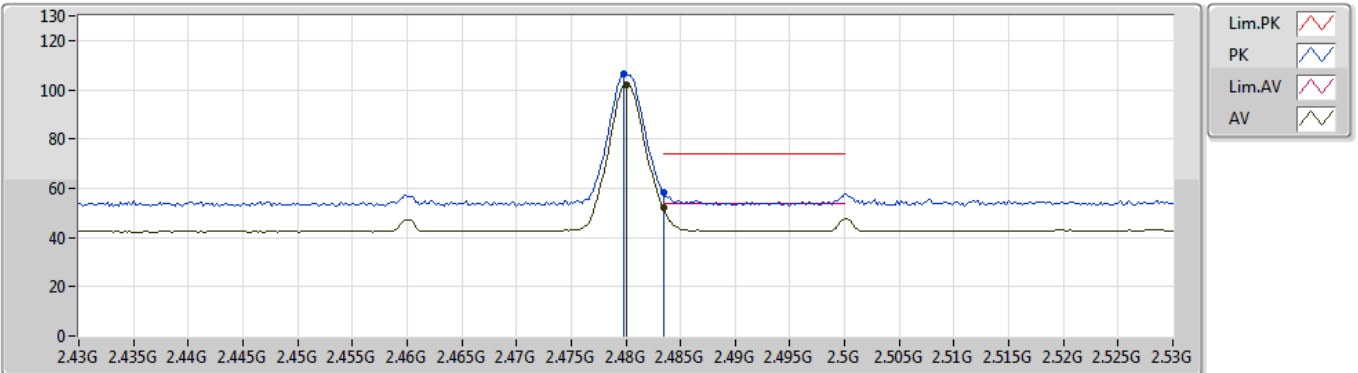
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Setting 9
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.48G	98.26	Inf	-Inf	30.04	3	Vertical	48	1.00	-	68.22
AV	2.4802G	94.12	Inf	-Inf	30.04	3	Vertical	48	1.00	-	64.08
PK	2.4882G	55.17	74.00	-18.83	30.06	3	Vertical	48	1.00	-	25.11
AV	2.4835G	45.71	54.00	-8.29	30.05	3	Vertical	48	1.00	-	15.66

BT-EDR(3Mbps)

15/08/2019

2480MHz_TX



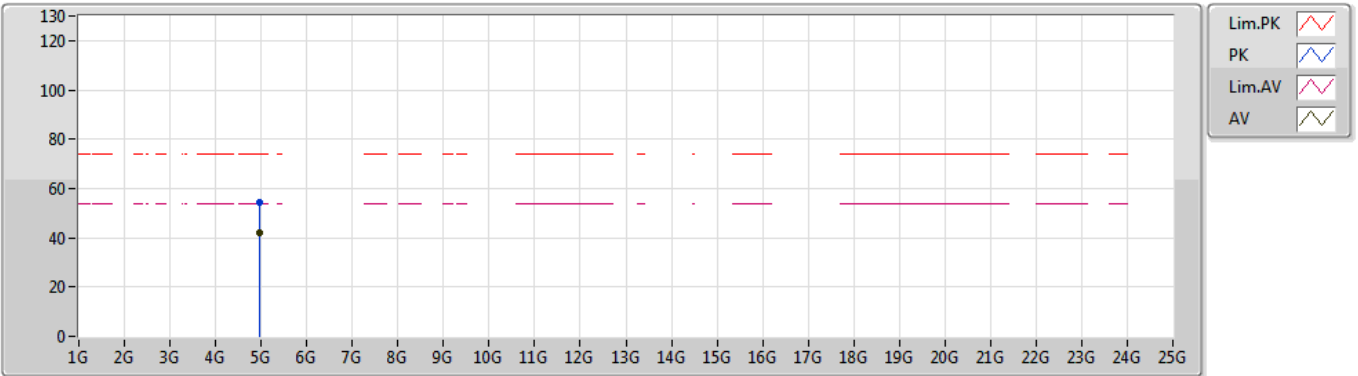
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Setting 9
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	2.4798G	106.21	Inf	-Inf	30.04	3	Horizontal	42	1.05	-	76.17
AV	2.48G	101.96	Inf	-Inf	30.04	3	Horizontal	42	1.05	-	71.92
PK	2.4835G	58.33	74.00	-15.67	30.05	3	Horizontal	42	1.05	-	28.28
AV	2.4835G	51.95	54.00	-2.05	30.05	3	Horizontal	42	1.05	-	21.90

BT-EDR(3Mbps)

15/08/2019

2480MHz_TX



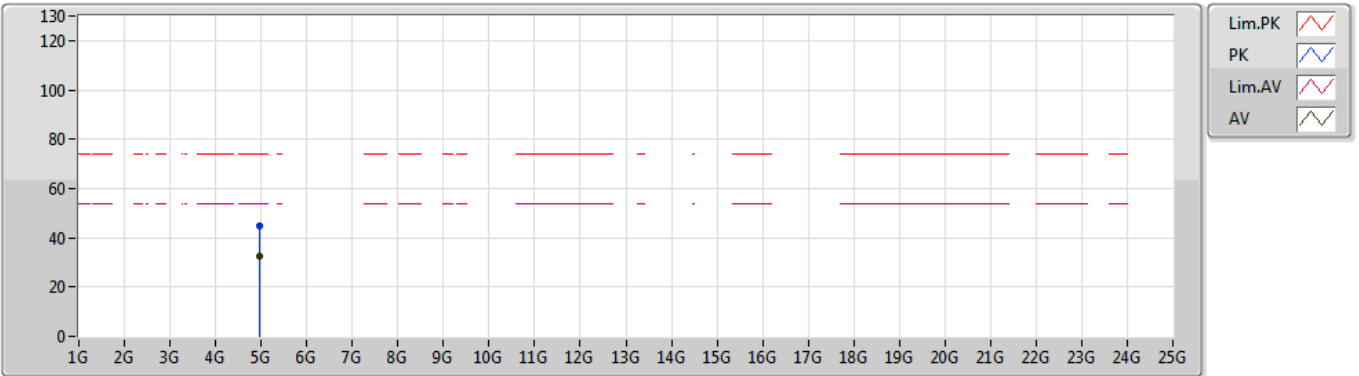
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Setting 9
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)			
PK	4.9717G	54.41	74.00	-19.59	3.36	3	Vertical	0	1.71	-	51.05			
AV	4.96924G	42.14	54.00	-11.86	3.35	3	Vertical	0	1.71	-	38.79			

BT-EDR(3Mbps)

15/08/2019

2480MHz_TX



EUT_Z_1TX
Setting 9
04-C-5
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)
PK	4.96822G	45.05	74.00	-28.95	3.35	3	Horizontal	59	1.33	-	41.70
AV	4.96978G	32.65	54.00	-21.35	3.35	3	Horizontal	59	1.33	-	29.30