

FCC Test Report

FCC ID : BKEHAC042
Equipment : Wireless Game Device
Brand Name : Nintendo®
Model Name : HAC-042
Applicant : Nintendo Co., Ltd.
11-1,Kamitoba-Hokotate-cho,Minami-ku,
Kyoto 601-8501, Japan
Manufacturer : Nintendo Co., Ltd.
11-1,Kamitoba-Hokotate-cho,Minami-ku,
Kyoto 601-8501, Japan
Standard : 47 CFR FCC Part 15.247

The product was received on Apr. 25, 2019, and testing was started from May 22, 2019 and completed on May 22, 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: 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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PHOTOGRAPHS OF EUT V01	

[illegible]

Summary of Test Result

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: Ann Hou

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.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Foxconn	WA-P-LA-02-227	PIFA	I-PEX	2.9

Note 1: The EUT has one antenna.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 1 (port 1) could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter / Battery		
EUT Function	☒ Point-to-multipoint	☐ Point-to-point	
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.: ...		
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.: ...		
☐	Other:		

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
BT-BR(1Mbps)	0.767	1.15	2.89m	1k
BT-EDR(2Mbps)	0.775	1.11	2.893m	1k
BT-EDR(3Mbps)	0.776	1.1	2.895m	1k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

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 v05r02
- ♦ ANSI C63.10-2013
- ♦ ANSI C63.4-2014

1.3 Testing Location Information

Testing Location			
☒	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 No. TW1190 with FCC.			
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei 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
AC Conduction	CO04-HY	Edward	22.1~26.1°C / 54.7~57.2%	22/May/2019
RF Conducted	TH01-HY	Barry	24.9~25.8°C / 57~61%	22/May/2019
Radiated	03CH01-HY	Edward	23.2~25.2°C / 55.3~65.9%	22/May/2019

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)	3.54 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	1.6 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%

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	3.7V

2.2 Test Channel Mode

Test Software	CyBluetool
---------------	------------

Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	0x0
2441MHz	0x0
2480MHz	0x0
BT-EDR(2Mbps)	-
2402MHz	0x0
2441MHz	0x0
2480MHz	0x0
BT-EDR(3Mbps)	-
2402MHz	0x0
2441MHz	0x0
2480MHz	0x0

2.3 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	Normal
1	Adapter charge mode

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	1. Adapter charge mode ; Normal		
	2. Battery mode ; CTX		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

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 Accessories and Support Equipment

Accessories				
Battery	Brand Name	Nintendo	Model Name	HAC-006
	Power Rating	3.7Vdc, 525mAh	Type	Li-ion
USB Cable	Cable	1.5 meter, Shielded cable		

Reminder: Regarding to more detail and other information, please refer to user manual.

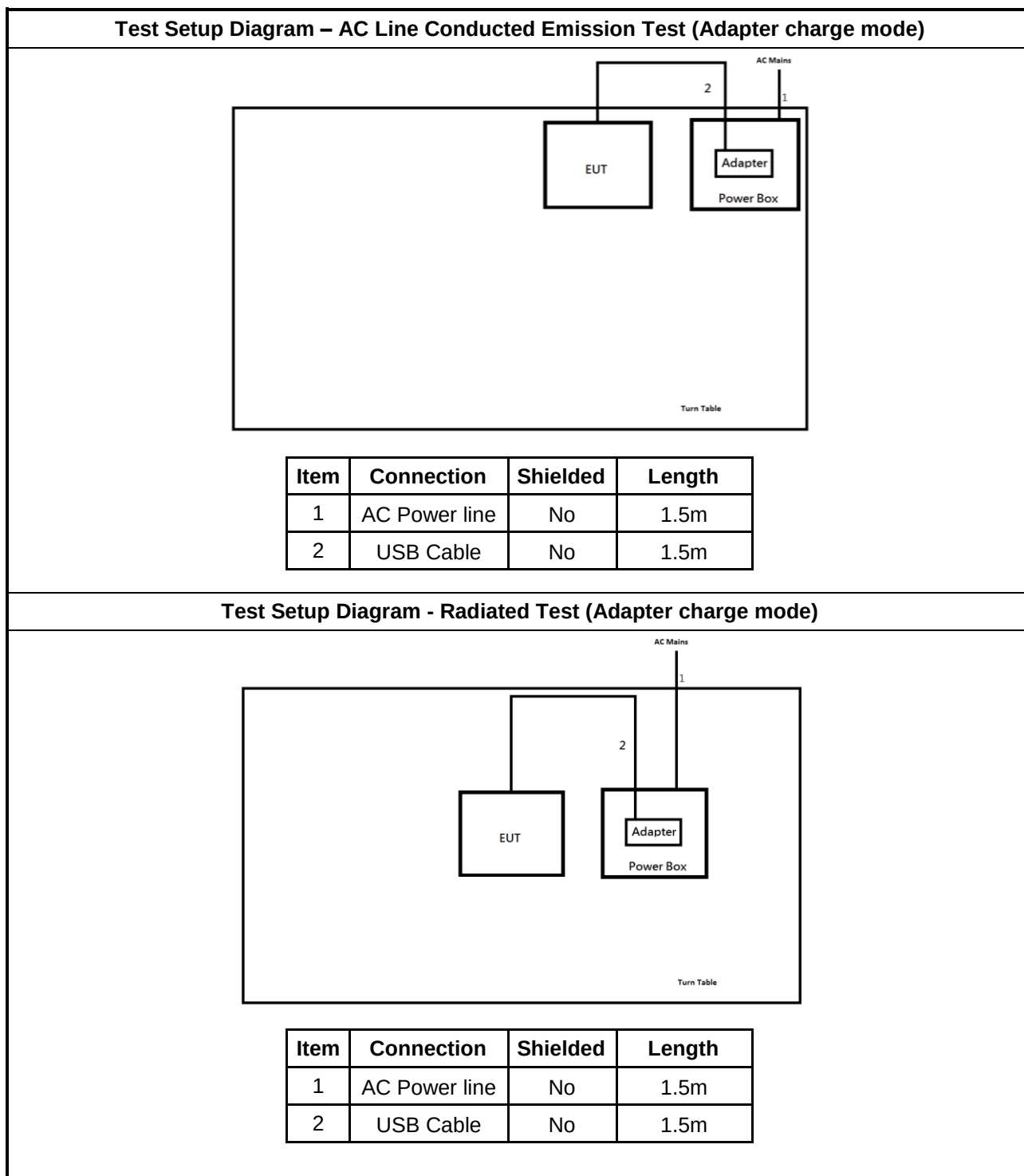
Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Adapter	SONY	AC0401TW	N/A
2	USB Cable	Hawk	04-HTE120	N/A

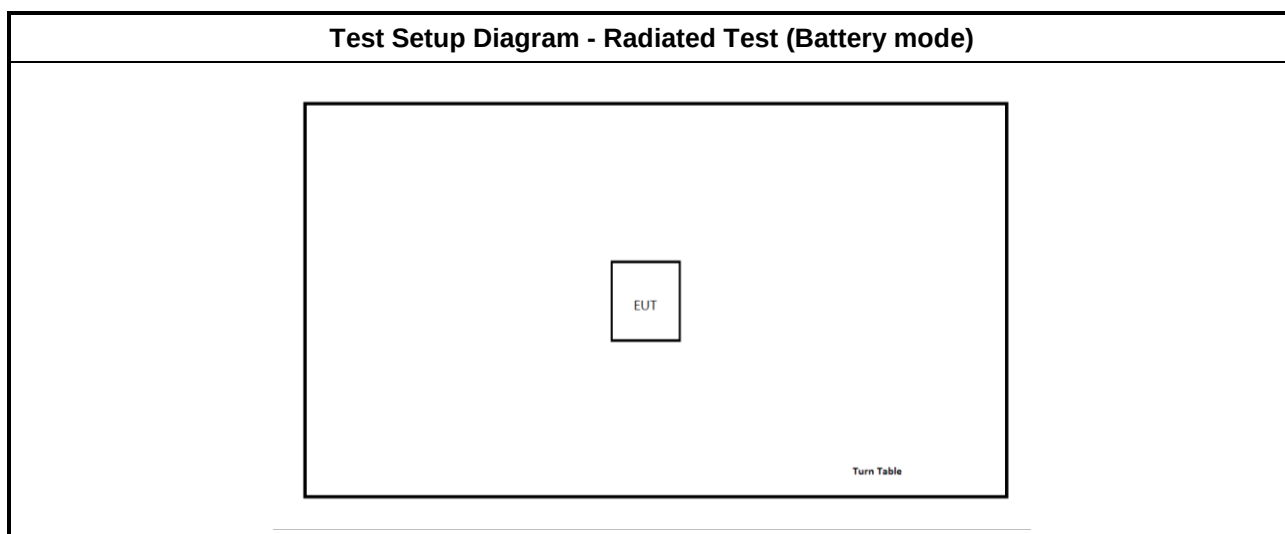
Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for Notebook	DELL	HA65NM130	DoC
3	DC Power Supply	GW	GPS-3030DD	N/A
4	Fixture	N/A	N/A	N/A

Note: Support equipment No.4 was provided by customer.

Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Adapter	SONY	AC0401TW	N/A

2.5 Test Setup Diagram





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.

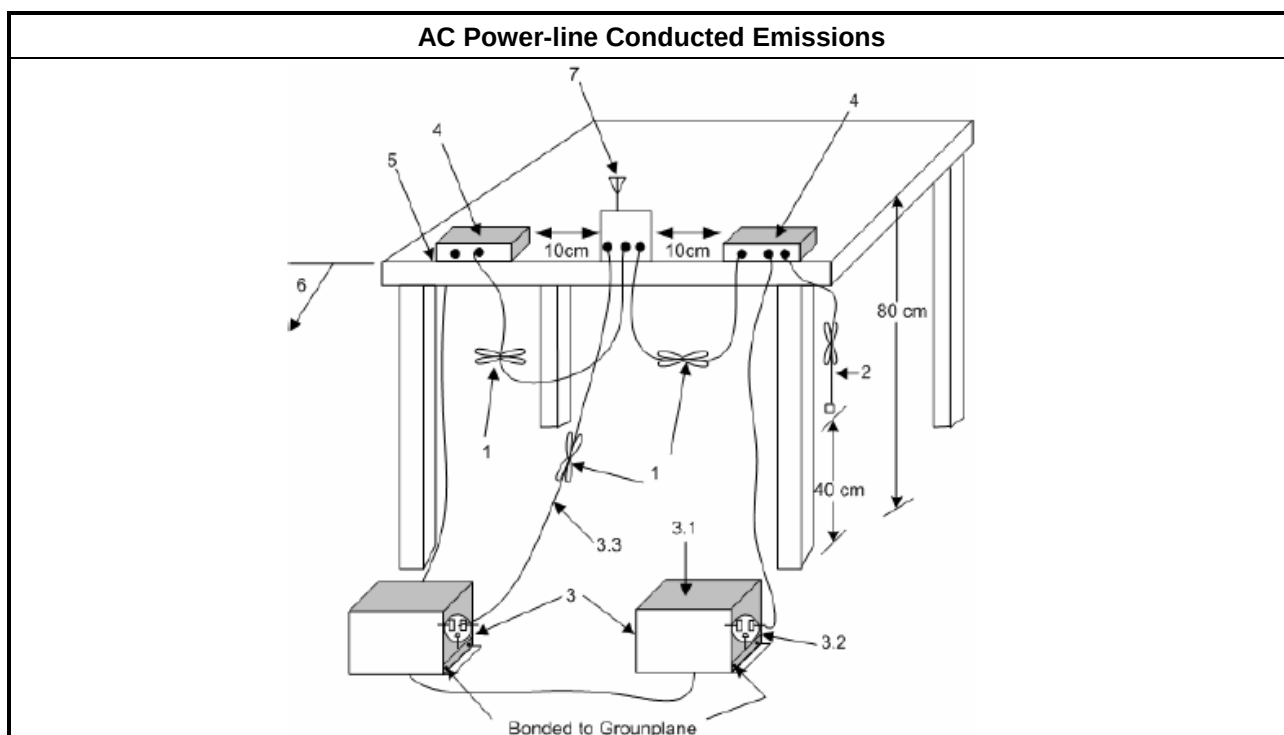
3.1.2 Measuring Instruments

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 foray 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	
2400-2483.5 MHz Band:	
	$N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	$75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 kHz).
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

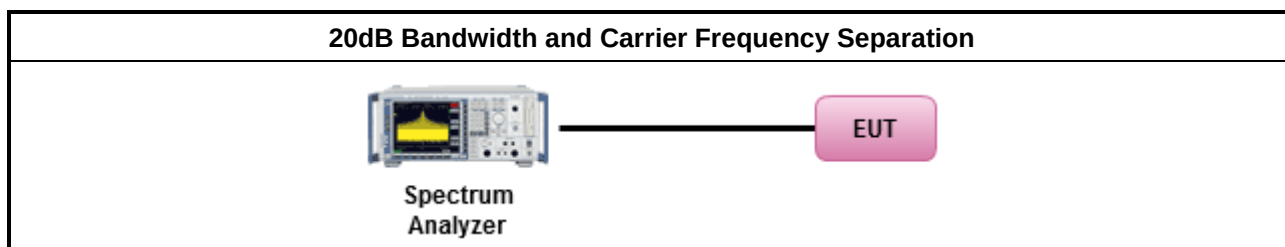
3.2.2 Measuring Instruments

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 6.9.2 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

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
2400-2483.5 MHz Band:	
	$N \geq 75$; Power 30dBm; EIRP 36dBm
	$75 > N \geq 15$; Power 21dBm; EIRP 27dBm
N: Number of Hopping Frequencies	

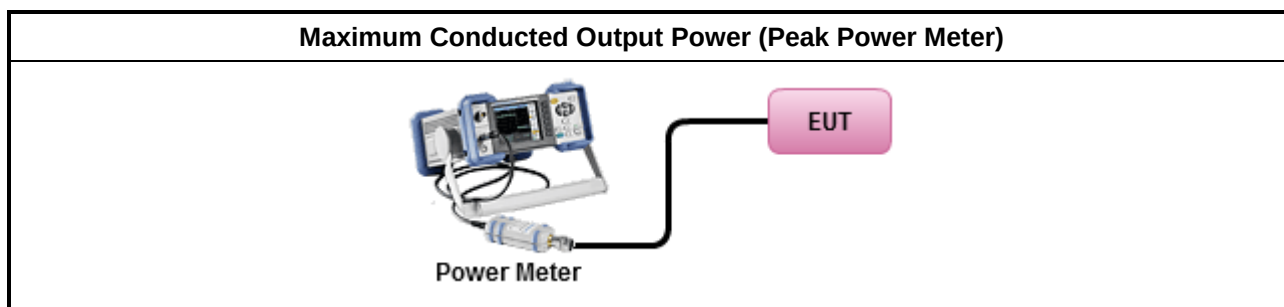
3.3.2 Measuring Instruments

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



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	
2400-2483.5 MHz Band:	
	$N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	$75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 kHz).
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

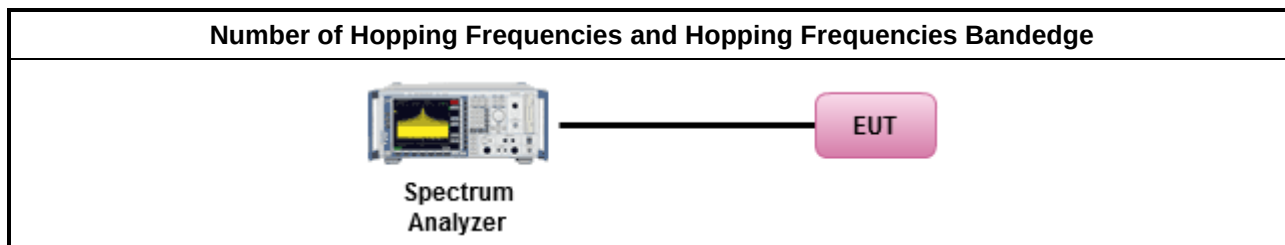
3.4.3 Measuring Instruments

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

Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems	
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
N: Number of Hopping Frequencies	

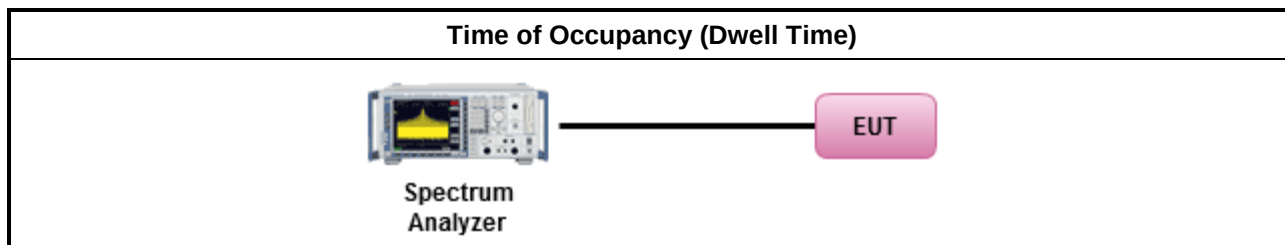
3.5.2 Measuring Instruments

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 (dB)
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.	

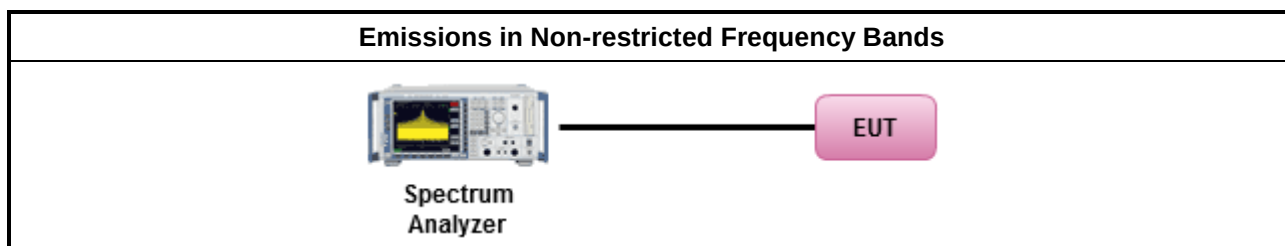
3.6.2 Measuring Instruments

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.

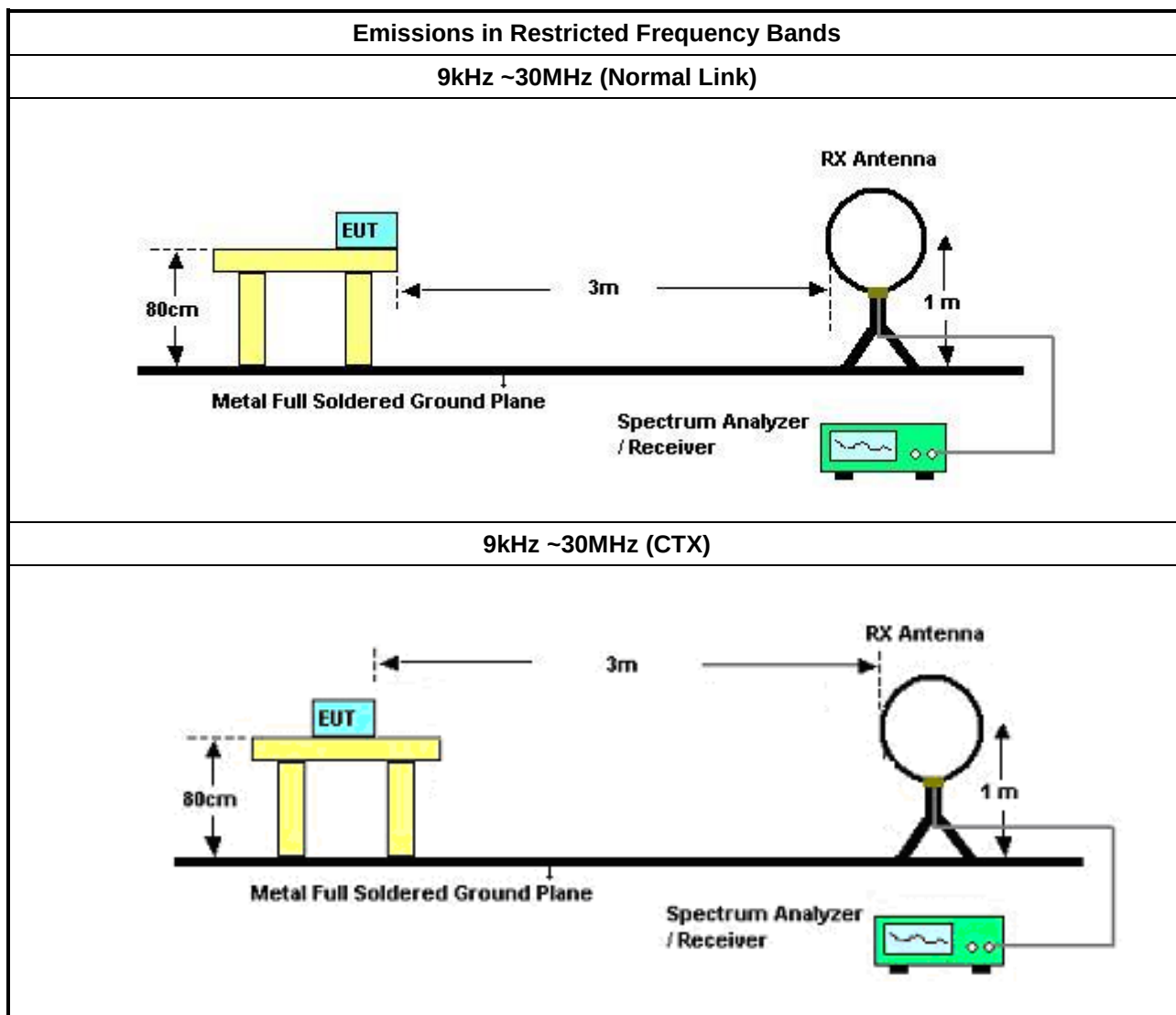
3.7.2 Measuring Instruments

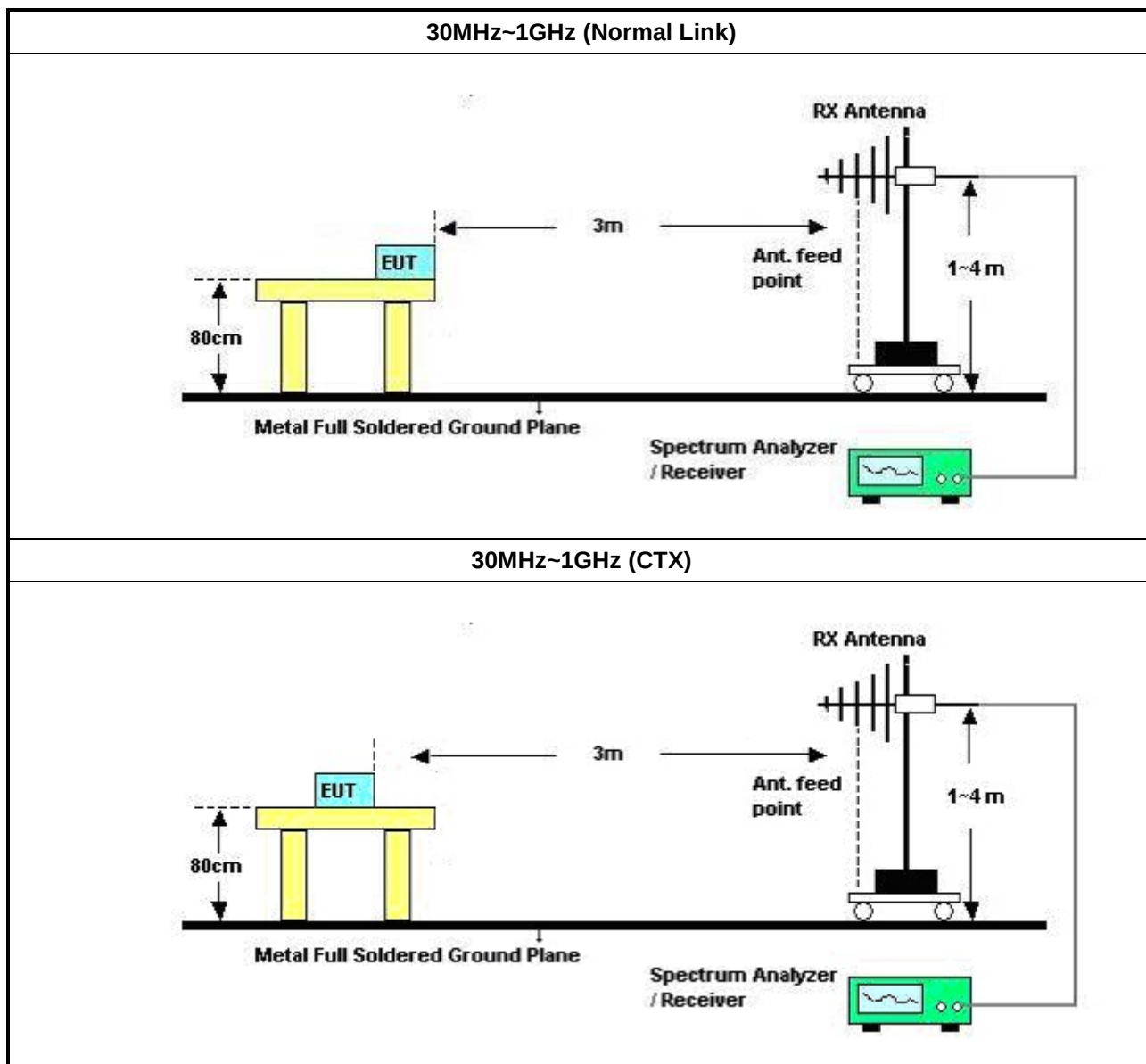
Refer a test equipment and calibration data table in this test report.

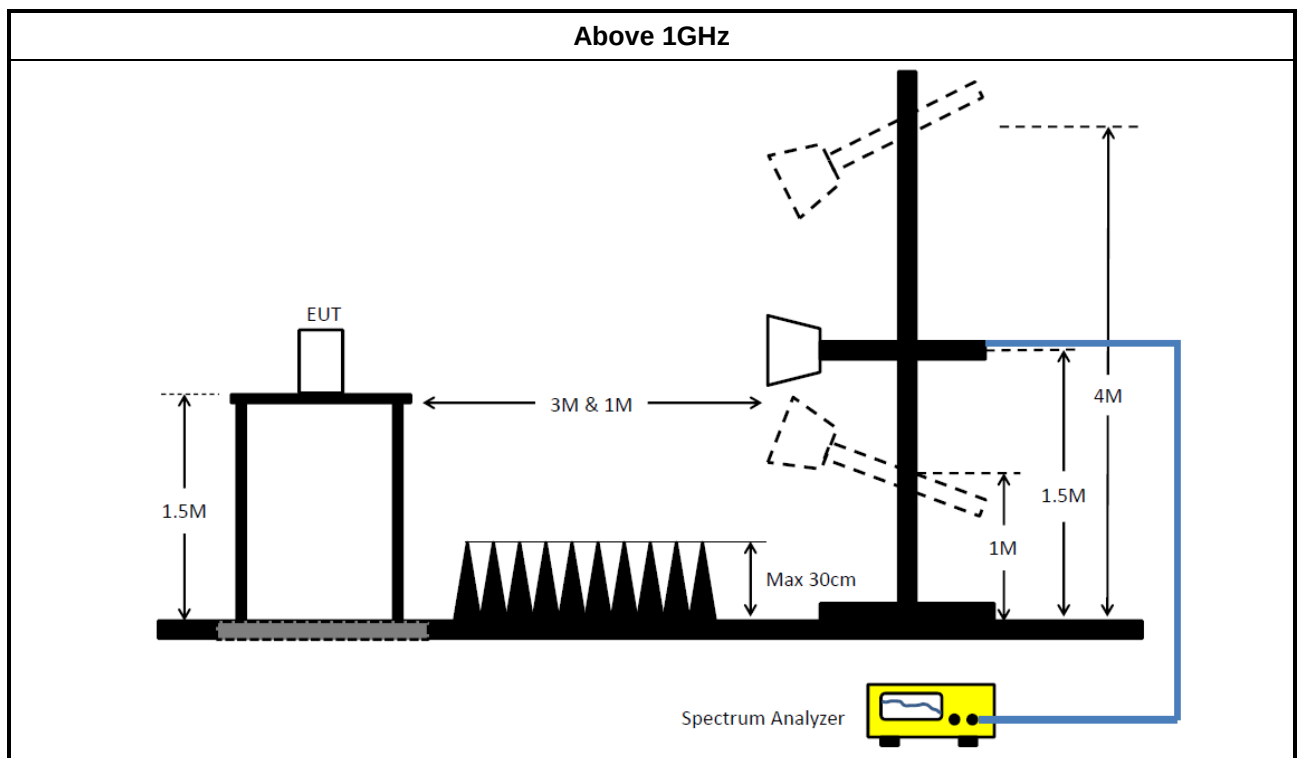
3.7.3 Test Procedures

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 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

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	08/Nov/2018	07/Nov/2019
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

NCR : Non-Calibration Require

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	10Hz~40GHz	13/Mar/2019	12/Mar/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	19/Feb/2019	18/Feb/2020
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	19/Feb/2019	18/Feb/2020
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	30MHz~18G	21/Mar/2019	20/Mar/2020
Cable 0.2m	HUBER	MY10711/4	RF Cable - 02	30MHz ~18G	21/Mar/2019	20/Mar/2020
Cable 0.5m	HUBER	MY10714/4	RF Cable – 05	30MHz~18G	21/Mar/2019	20/Mar/2020

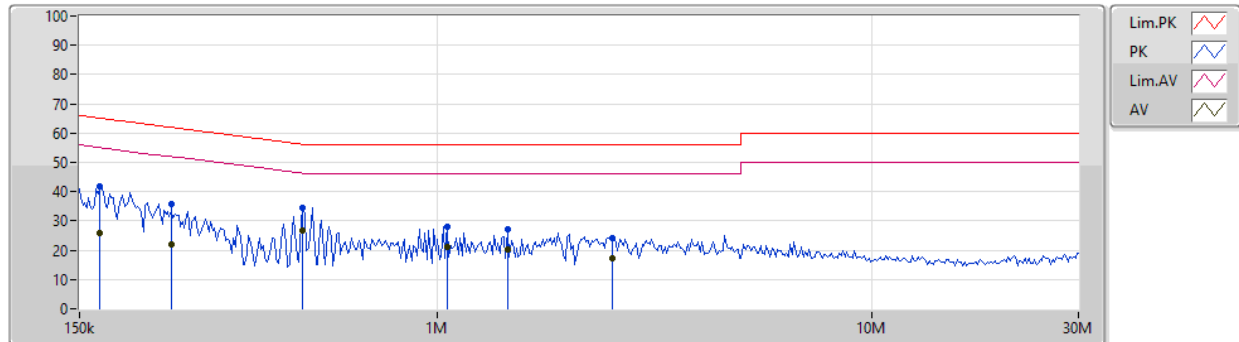
Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
N.S.A. Measurement	Riken	SAC-3M	03CH01-HY	30 MHz ~ 1 GHz 3m	11/Jan/2019	10/Jan/2020
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH01-HY	1 GHz ~ 18 GHz 3m	27/Jan/2019	26/Jan/2020
PreAmplifier	COM-POWER	PA-103	161050	1 MHz ~ 1 GHz	24/Jul/2018	23/Jul/2019
EMI Test Receiver	R&S	ESU-26	100422	20Hz ~ 26.5GHz	25/Oct/2018	24/Oct/2019
Bilog Antenna with 5dB Attenuator	SCHAFFNER& MTJ	CBL6112D & MTJ6102-05	2678 / 001	30 MHz ~ 2 GHz	07/Jul/2018	06/Jul/2019
RF Cable-R03m	Jye Bao	RG142	CB019	9KHz ~ 1 GHz	14/Dec/2018	13/Dec/2019
Spectrum Analyzer	R&S	FSV 40	101407	10Hz ~ 40GHz	16/Aug/2018	15/Aug/2019
Microwave Preamplifier	Agilent	8449B	3008A02602	1GHz ~ 26.5GHz	27/Mar/2019	26/Mar/2020
Horn Antenna	SCHWARZBECK	BBHA9120	BBHA9120D0 1834	1 GHz ~ 18 GHz	30/Jan/2019	29/Jan/2020
RF Cable-HIGH	SUHNER	SUCOFLEX 106	CB-0021	1 GHz ~ 18 GHz	07/Dec/2018	06/Dec/2019

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Adapter Charging mode		

22/05/2019

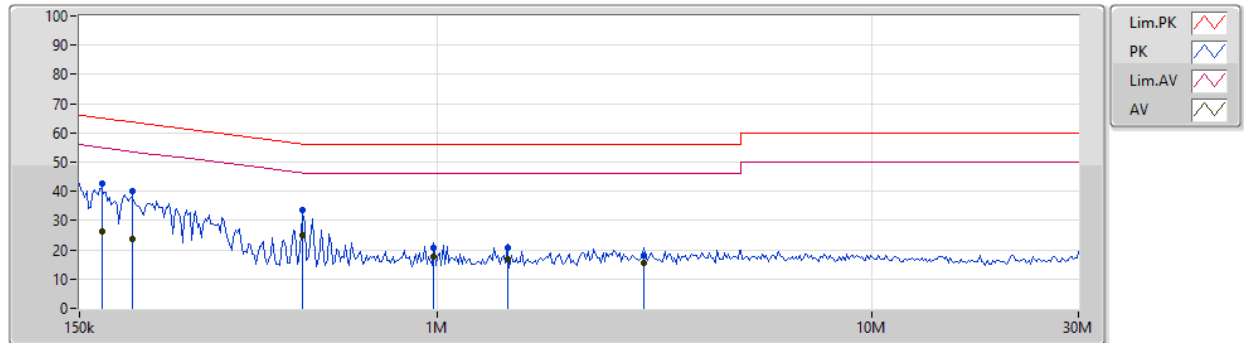


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	167.35k	41.62	65.08	-23.46	19.48	Neutral	-	22.14	9.60	0.01	9.87			
AV	167.35k	25.94	55.08	-29.14	19.48	Neutral	-	6.46	9.60	0.01	9.87			
QP	244.252k	35.83	61.95	-26.12	19.47	Neutral	-	16.36	9.59	0.01	9.87			
AV	244.252k	21.84	51.95	-30.11	19.47	Neutral	-	2.37	9.59	0.01	9.87			
QP	490.156k	34.35	56.17	-21.82	19.48	Neutral	-	14.87	9.59	0.01	9.88			
AV	490.156k	26.71	46.17	-19.46	19.48	Neutral	-	7.23	9.59	0.01	9.88			
QP	1.055M	27.91	56.00	-28.09	19.49	Neutral	-	8.42	9.59	0.02	9.88			
AV	1.055M	21.07	46.00	-24.93	19.49	Neutral	-	1.58	9.59	0.02	9.88			
QP	1.45M	27.34	56.00	-28.66	19.52	Neutral	-	7.82	9.60	0.03	9.89			
AV	1.45M	20.12	46.00	-25.88	19.52	Neutral	-	0.60	9.60	0.03	9.89			
QP	2.531M	23.93	56.00	-32.07	19.54	Neutral	-	4.39	9.61	0.04	9.89			
AV	2.531M	17.05	46.00	-28.95	19.54	Neutral	-	-2.49	9.61	0.04	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Adapter Charging mode		

22/05/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	169.024k	42.50	65.01	-22.51	19.48	Line	-	23.02	9.60	0.01	9.87			
AV	169.024k	26.23	55.01	-28.78	19.48	Line	-	6.75	9.60	0.01	9.87			
QP	198.194k	40.04	63.69	-23.65	19.48	Line	-	20.56	9.60	0.01	9.87			
AV	198.194k	23.78	53.69	-29.91	19.48	Line	-	4.30	9.60	0.01	9.87			
QP	490.156k	33.77	56.17	-22.40	19.48	Line	-	14.29	9.59	0.01	9.88			
AV	490.156k	24.79	46.17	-21.38	19.48	Line	-	5.31	9.59	0.01	9.88			
QP	983.628k	20.88	56.00	-35.12	19.50	Line	-	1.38	9.60	0.02	9.88			
AV	983.628k	17.66	46.00	-28.34	19.50	Line	-	-1.84	9.60	0.02	9.88			
QP	1.45M	20.65	56.00	-35.35	19.53	Line	-	1.12	9.61	0.03	9.89			
AV	1.45M	16.81	46.00	-29.19	19.53	Line	-	-2.72	9.61	0.03	9.89			
QP	2.998M	18.00	56.00	-38.00	19.56	Line	-	-1.56	9.63	0.04	9.89			
AV	2.998M	15.48	46.00	-30.52	19.56	Line	-	-4.08	9.63	0.04	9.89			

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	887.056k	887KF1D	918.75k	880.81k
BT-EDR(2Mbps)	1.32M	1.227M	1M23G1D	1.318M	1.223M
BT-EDR(3Mbps)	1.31M	1.226M	1M23G1D	1.309M	1.217M

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;

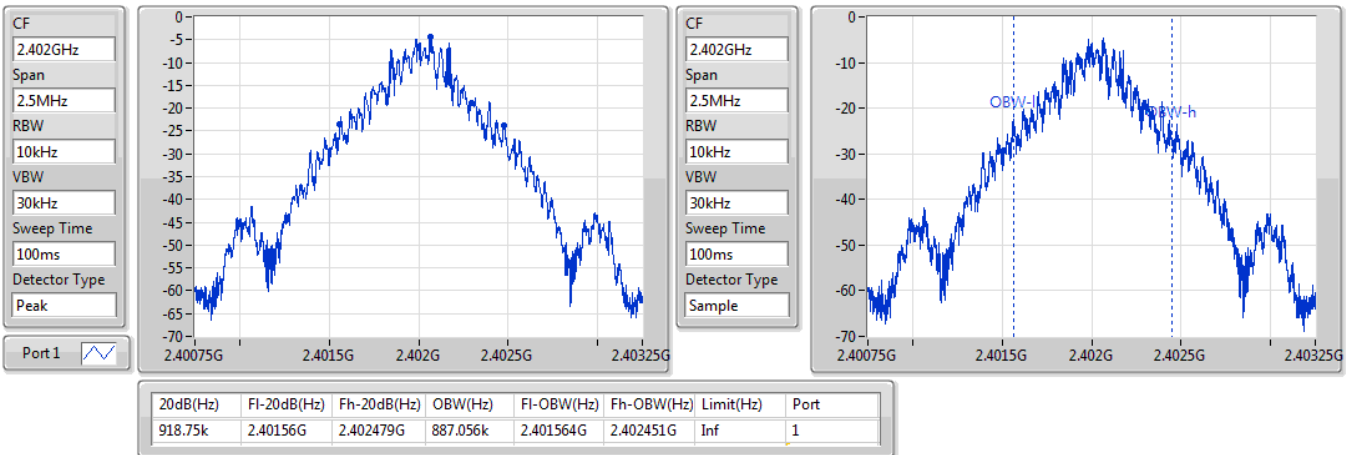
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	918.75k	887.056k
2441MHz	Pass	Inf	920k	880.81k
2480MHz	Pass	Inf	918.75k	884.558k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.319M	1.223M
2441MHz	Pass	Inf	1.318M	1.224M
2480MHz	Pass	Inf	1.32M	1.227M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.31M	1.217M
2441MHz	Pass	Inf	1.309M	1.221M
2480MHz	Pass	Inf	1.309M	1.226M

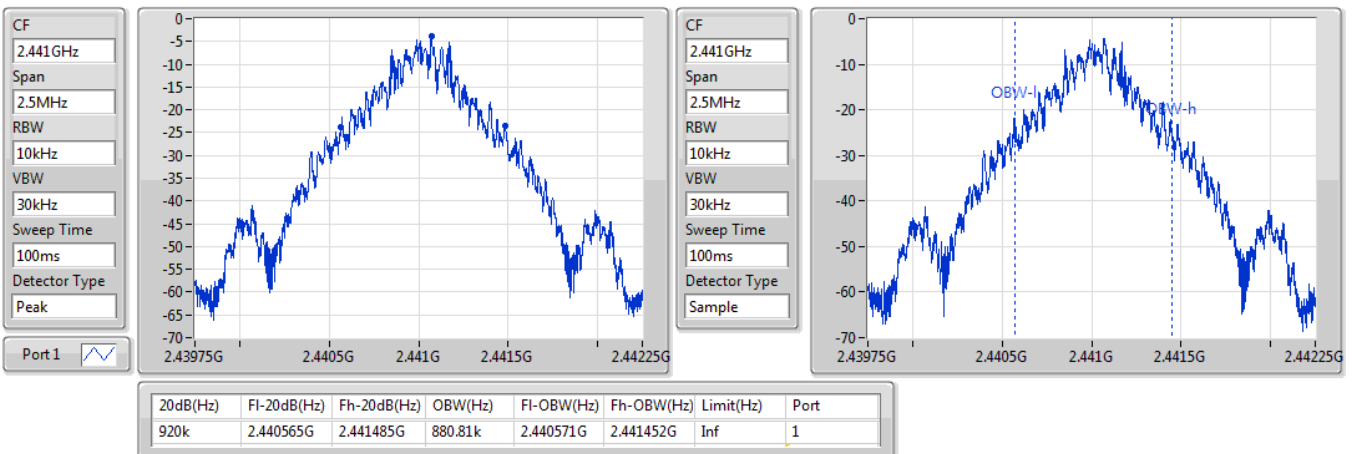
Port X-N dB = Port X 20dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

BT-BR(1Mbps)
2402MHz
EBW

22/05/2019

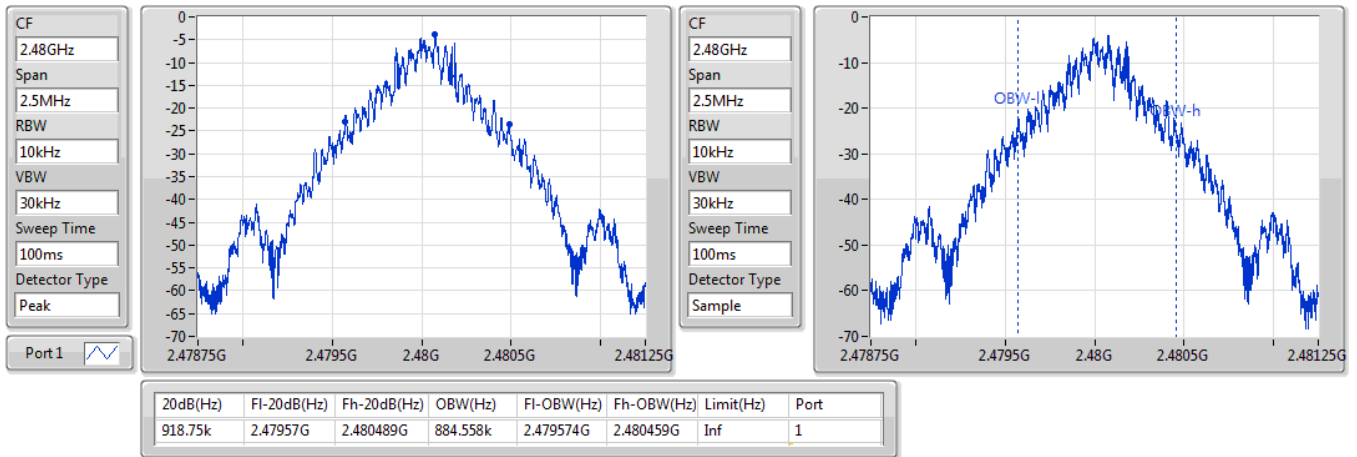

BT-BR(1Mbps)
2441MHz
EBW

22/05/2019

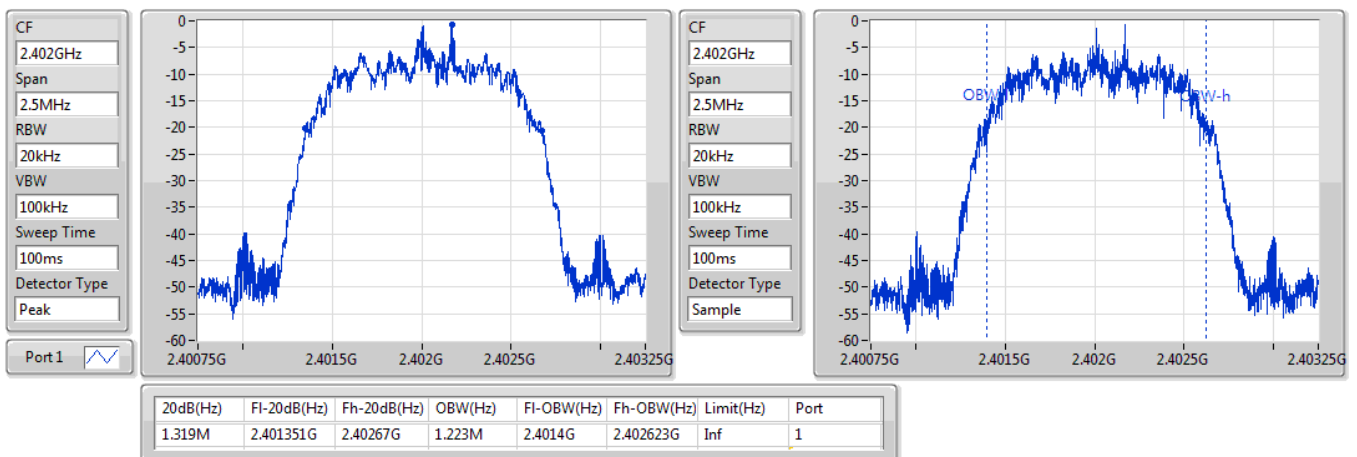


BT-BR(1Mbps)
EBW
2480MHz

22/05/2019

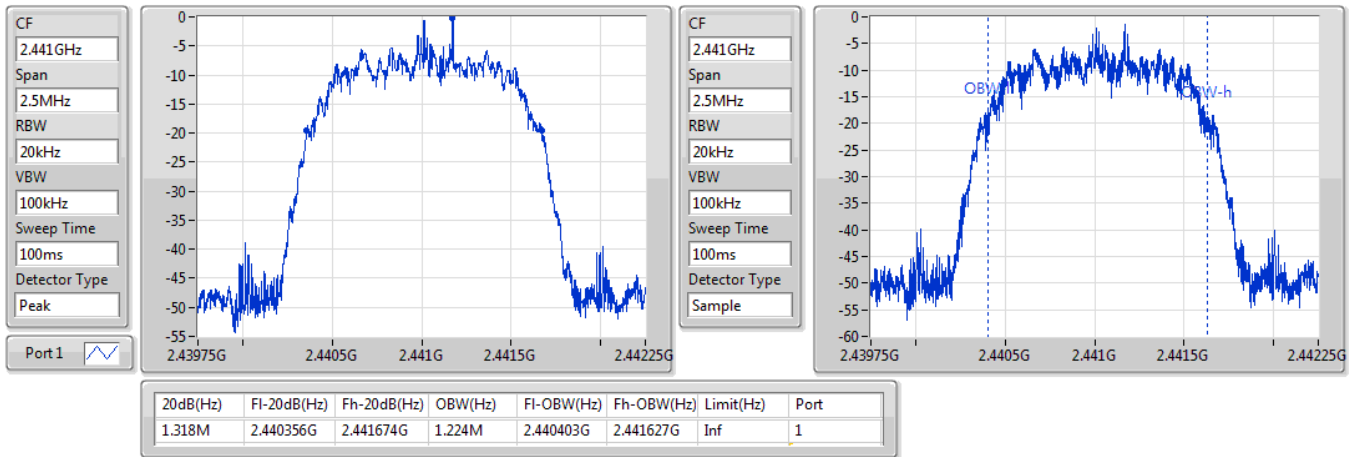

BT-EDR(2Mbps)
EBW
2402MHz

22/05/2019

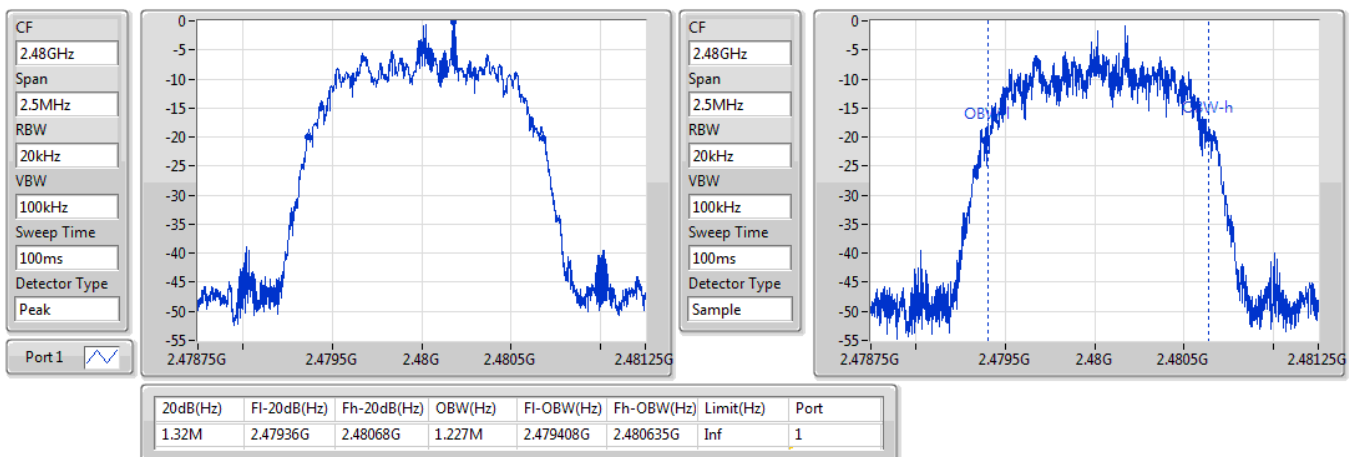


BT-EDR(2Mbps)
EBW
2441MHz

22/05/2019

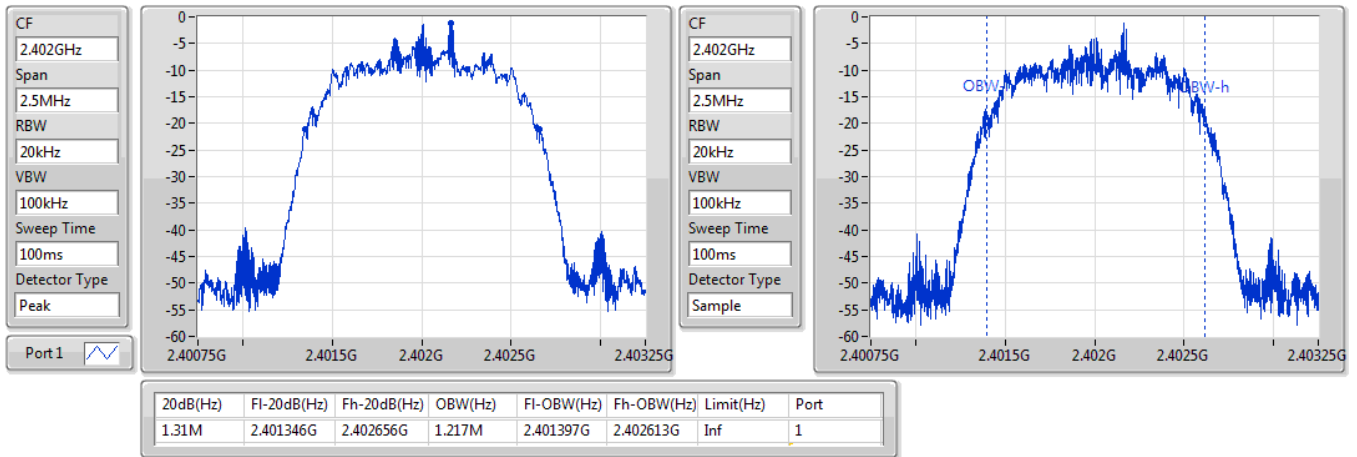

BT-EDR(2Mbps)
EBW
2480MHz

22/05/2019

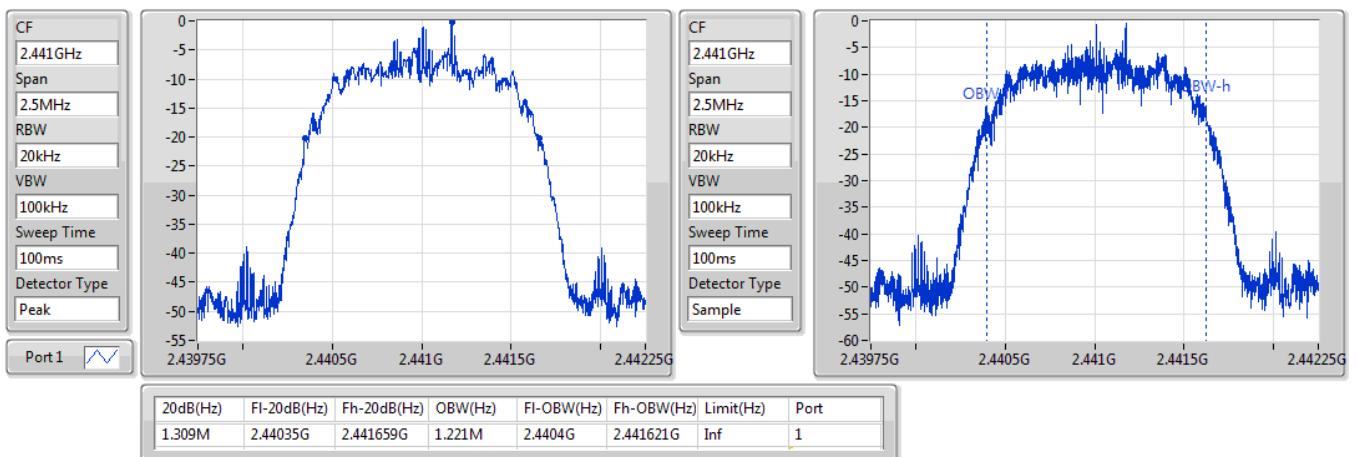


BT-EDR(3Mbps)
EBW
2402MHz

22/05/2019


BT-EDR(3Mbps)
EBW
2441MHz

22/05/2019

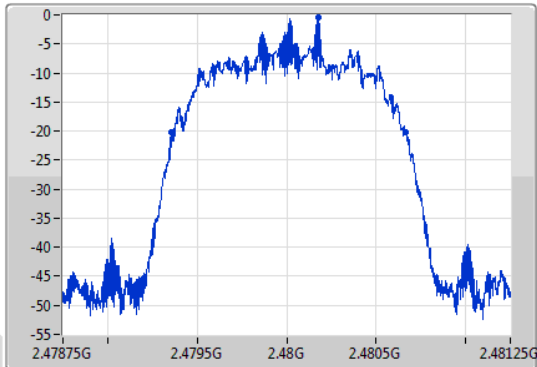


BT-EDR(3Mbps)

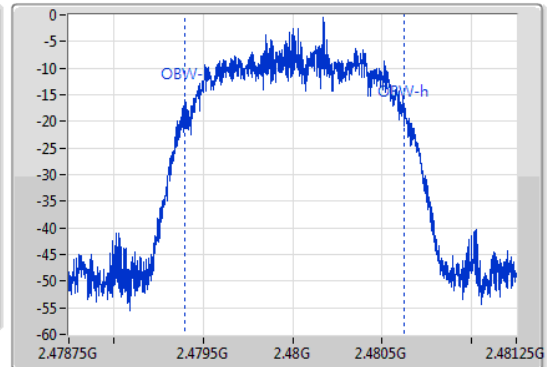
2480MHz

22/05/2019

CF
2.48GHz
Span
2.5MHz
RBW
20kHz
VBW
100kHz
Sweep Time
100ms
Detector Type
Peak
Port 1



CF
2.48GHz
Span
2.5MHz
RBW
20kHz
VBW
100kHz
Sweep Time
100ms
Detector Type
Sample



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.309M	2.479355G	2.480664G	1.226M	2.479399G	2.480625G	Inf	1



Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.0035M	997.5k
BT-EDR(2Mbps)	1.0035M	1.0005M
BT-EDR(3Mbps)	1.002M	999k

Result

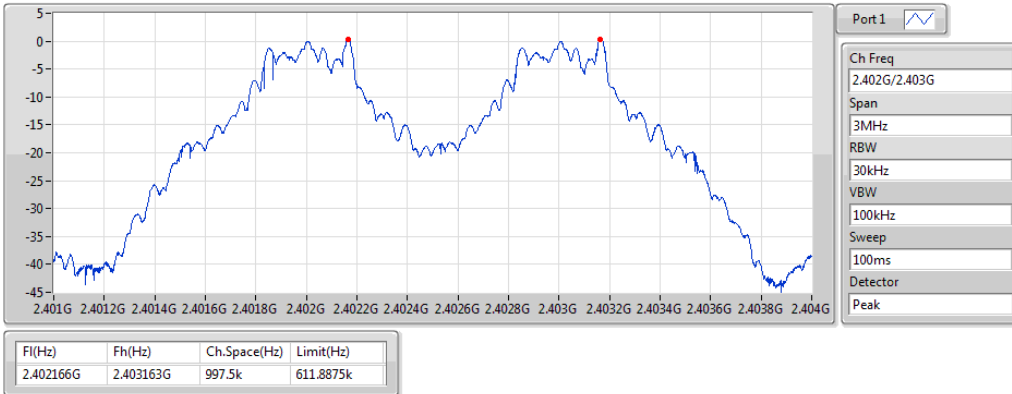
Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402166G	2.403163G	997.5k	611.8875k
2441MHz	Pass	2.441169G	2.442172G	1.0035M	612.72k
2480MHz	Pass	2.479173G	2.480175G	1.002M	611.8875k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.402005G	2.403007G	1.002M	878.454k
2441MHz	Pass	2.44101G	2.44201G	1.0005M	877.788k
2480MHz	Pass	2.479014G	2.480018G	1.0035M	879.12k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402166G	2.403166G	1.0005M	872.46k
2441MHz	Pass	2.441172G	2.442171G	999k	871.794k
2480MHz	Pass	2.479173G	2.480175G	1.002M	871.794k

BT-BR(1Mbps)

2.402G/2.403GHz

Channel Separation

22/05/2019

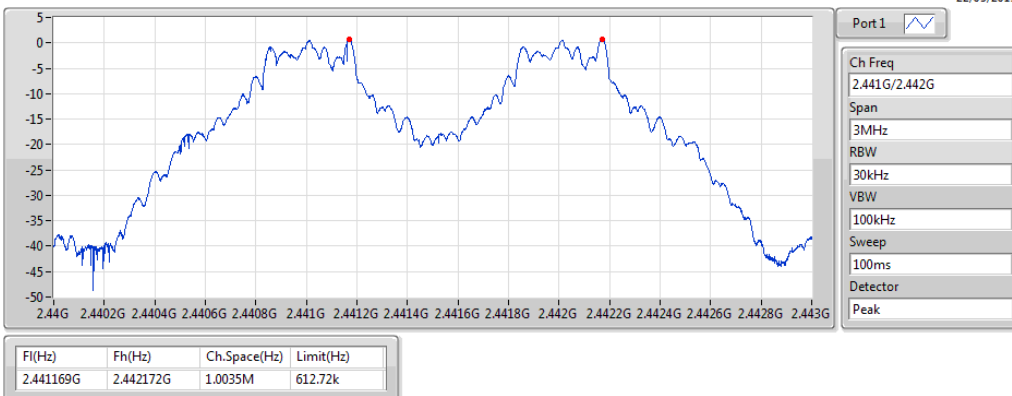


BT-BR(1Mbps)

2.441G/2.442GHz

Channel Separation

22/05/2019



BT-BR(1Mbps)

2.48G/2.479GHz

Channel Separation

22/05/2019

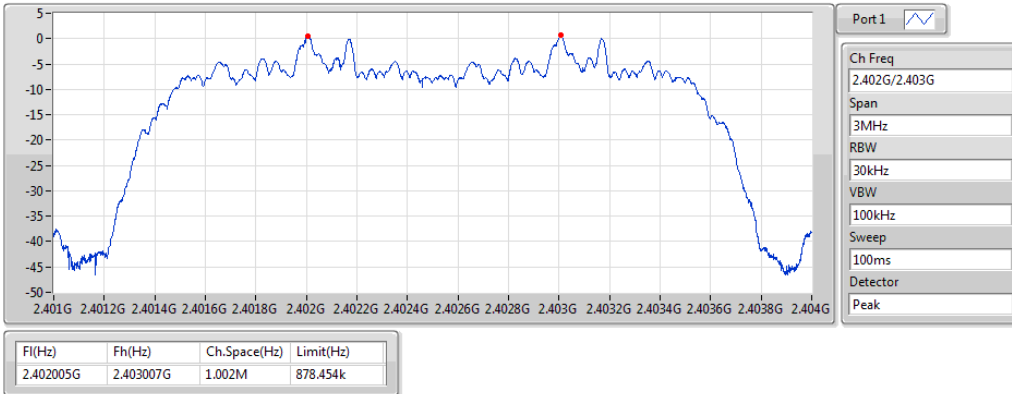


BT-EDR(2Mbps)

2.402G/2.403GHz

Channel Separation

22/05/2019

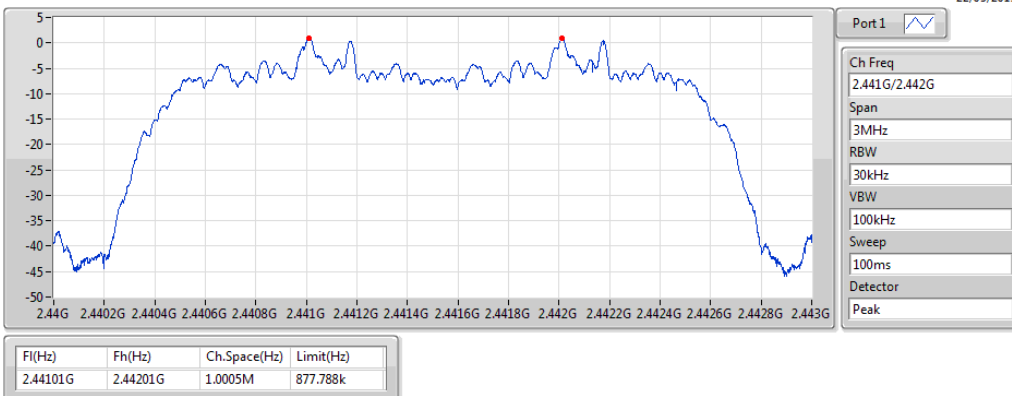


BT-EDR(2Mbps)

2.441G/2.442GHz

Channel Separation

22/05/2019

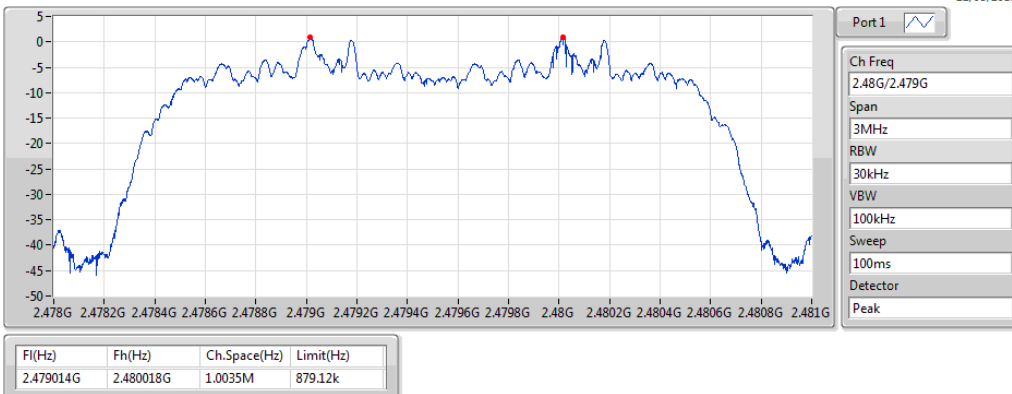


BT-EDR(2Mbps)

2.48G/2.479GHz

Channel Separation

22/05/2019

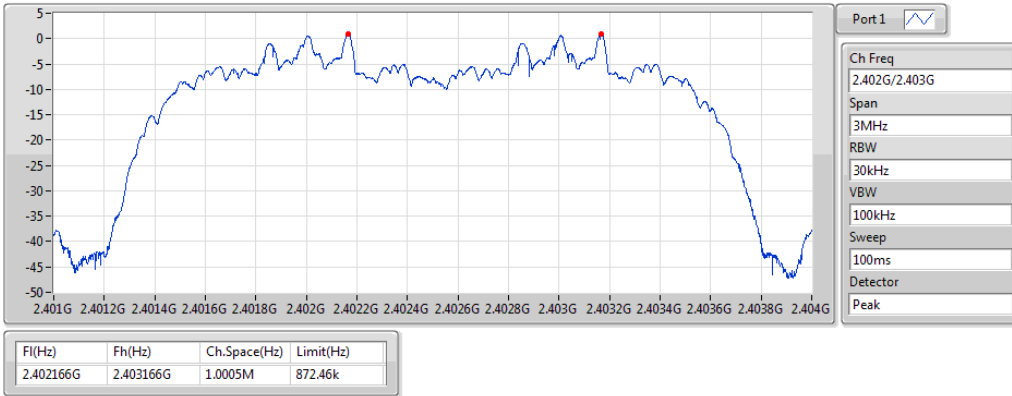


BT-EDR(3Mbps)

2.402G/2.403GHz

Channel Separation

22/05/2019

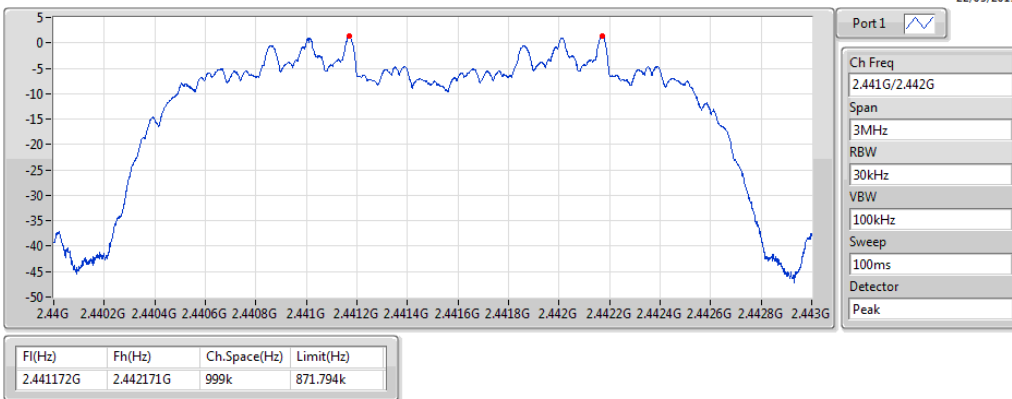


BT-EDR(3Mbps)

2.441G/2.442GHz

Channel Separation

22/05/2019

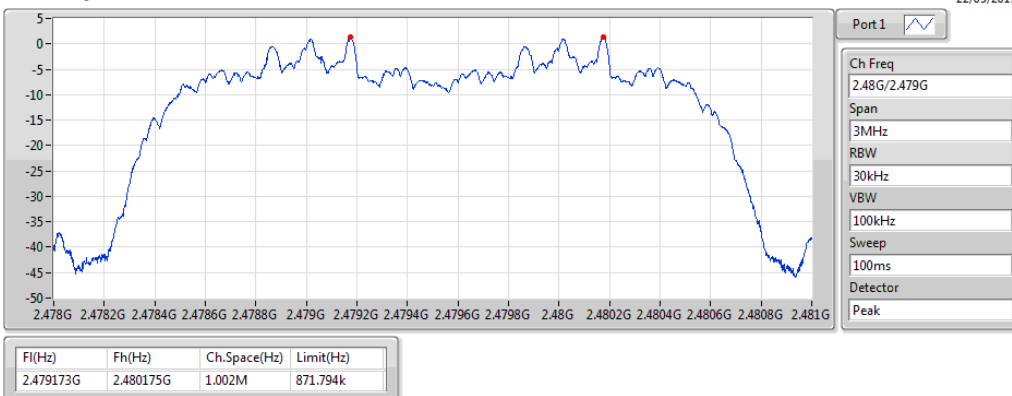


BT-EDR(3Mbps)

2.48G/2.479GHz

Channel Separation

22/05/2019





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	2.91	0.00195
BT-EDR(2Mbps)	5.76	0.00377
BT-EDR(3Mbps)	6.04	0.00402

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.90	2.57	21.00
2441MHz	Pass	2.90	2.91	21.00
2480MHz	Pass	2.90	2.90	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.90	5.44	21.00
2441MHz	Pass	2.90	5.76	21.00
2480MHz	Pass	2.90	5.70	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.90	5.24	21.00
2441MHz	Pass	2.90	6.04	21.00
2480MHz	Pass	2.90	5.98	21.00

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



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	2.43	0.00175
BT-EDR(2Mbps)	3.20	0.00209
BT-EDR(3Mbps)	3.21	0.00209

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.90	2.00	21.00
2441MHz	Pass	2.90	2.41	21.00
2480MHz	Pass	2.90	2.43	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.90	2.81	21.00
2441MHz	Pass	2.90	3.19	21.00
2480MHz	Pass	2.90	3.20	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.90	2.33	21.00
2441MHz	Pass	2.90	3.21	21.00
2480MHz	Pass	2.90	3.21	21.00

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



Summary

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

Result

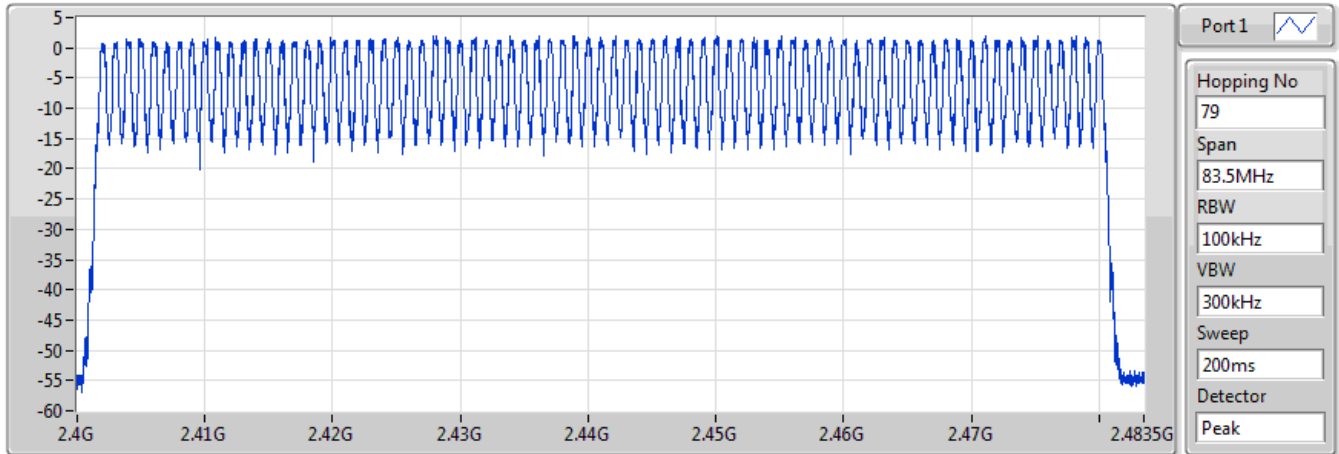
Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2441MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2441MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2441MHz	Pass	79	15

BT-BR(1Mbps)

2441MHz

Hopping Ch

22/05/2019



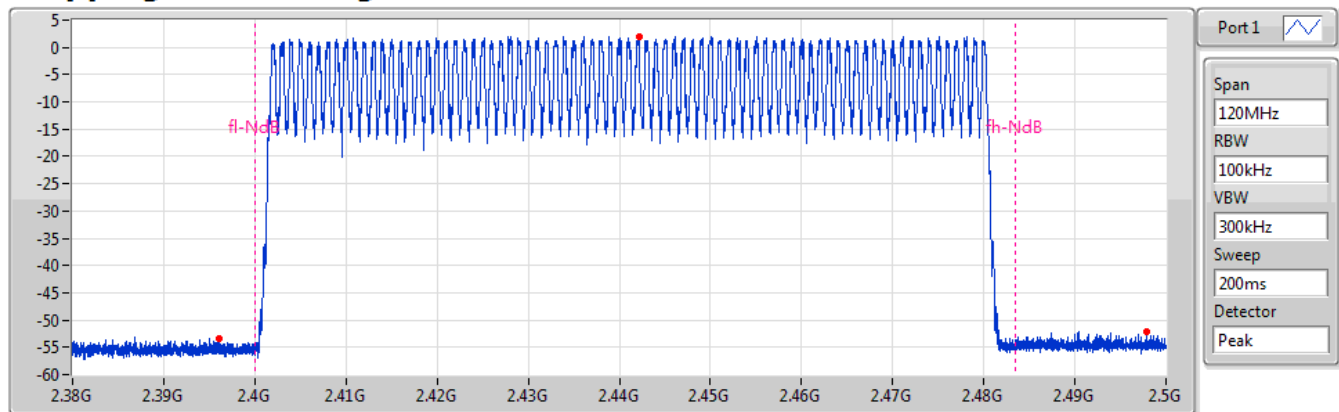
Hopping No	Limit
79	15

BT-BR(1Mbps)

2441MHz

Hopping Ch Bandedge (Non-restricted Band)

22/05/2019



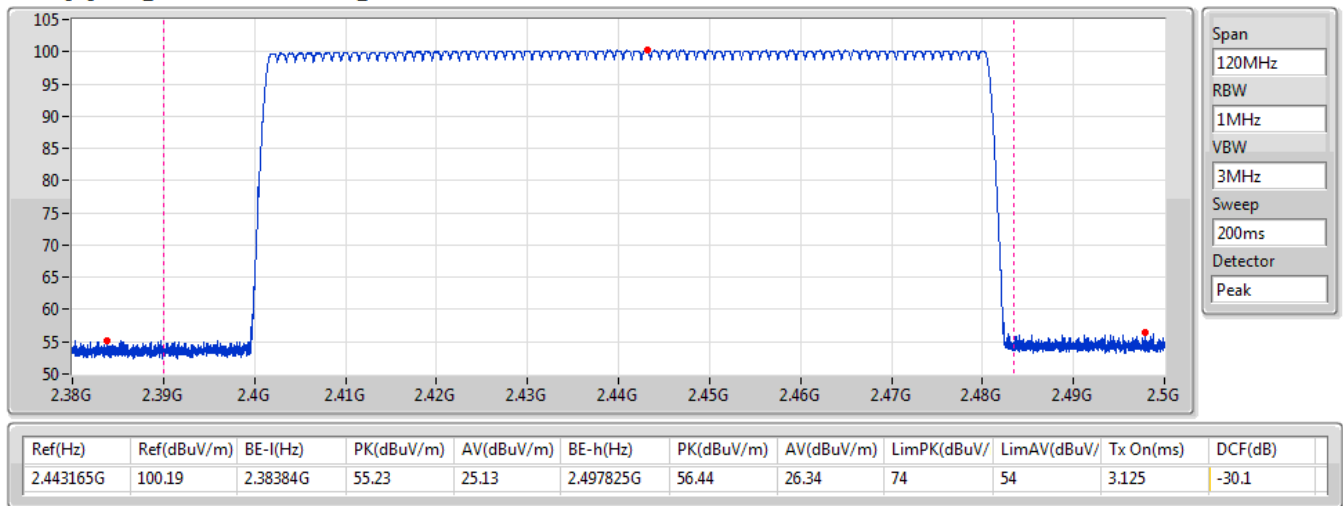
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-17.99	2.442175G	2.01	2.396035G	-53.49	2.497825G	-52.21

BT-BR(1Mbps)

2441MHz

Hopping Ch Bandedge (Restricted Band)

22/05/2019

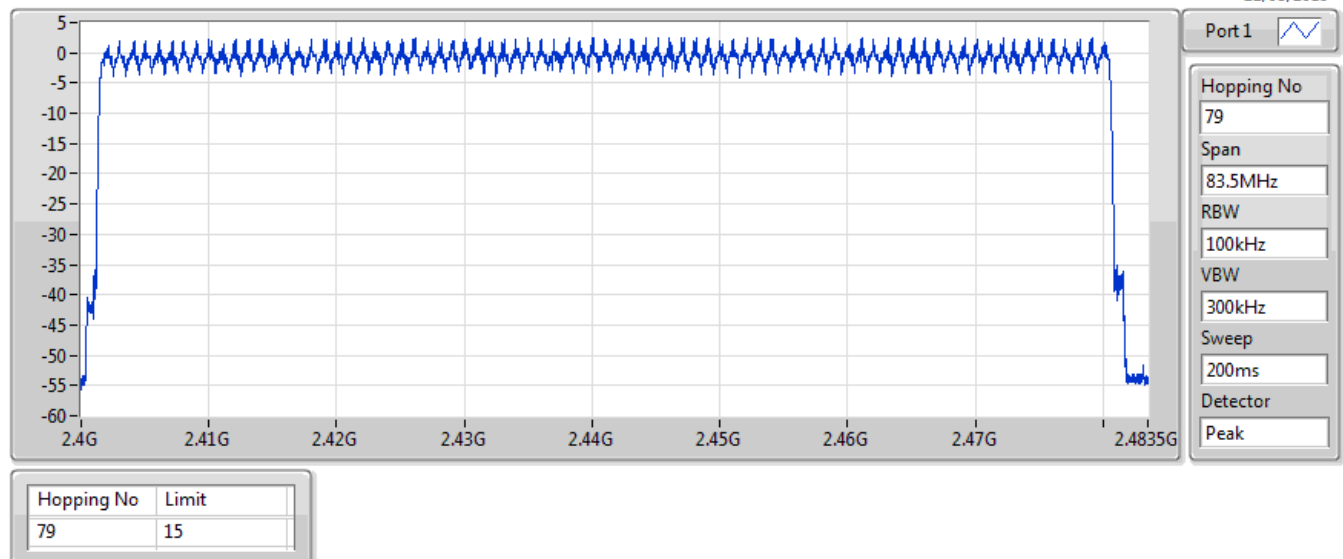


BT-EDR(2Mbps)

2441MHz

Hopping Ch

22/05/2019

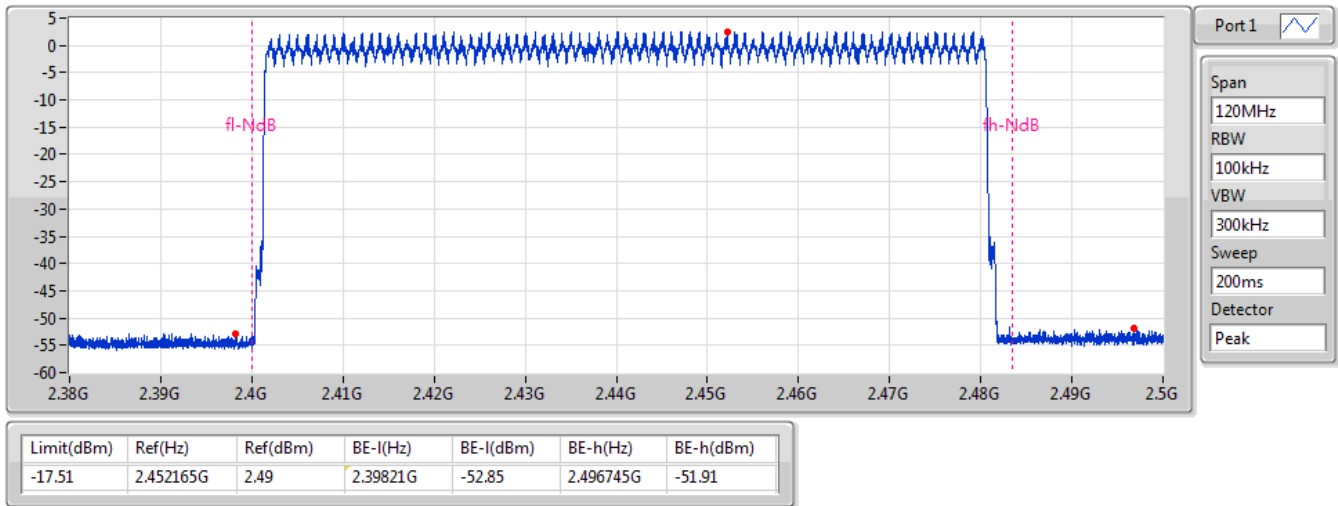


BT-EDR(2Mbps)

2441MHz

Hopping Ch Bandedge (Non-restricted Band)

22/05/2019

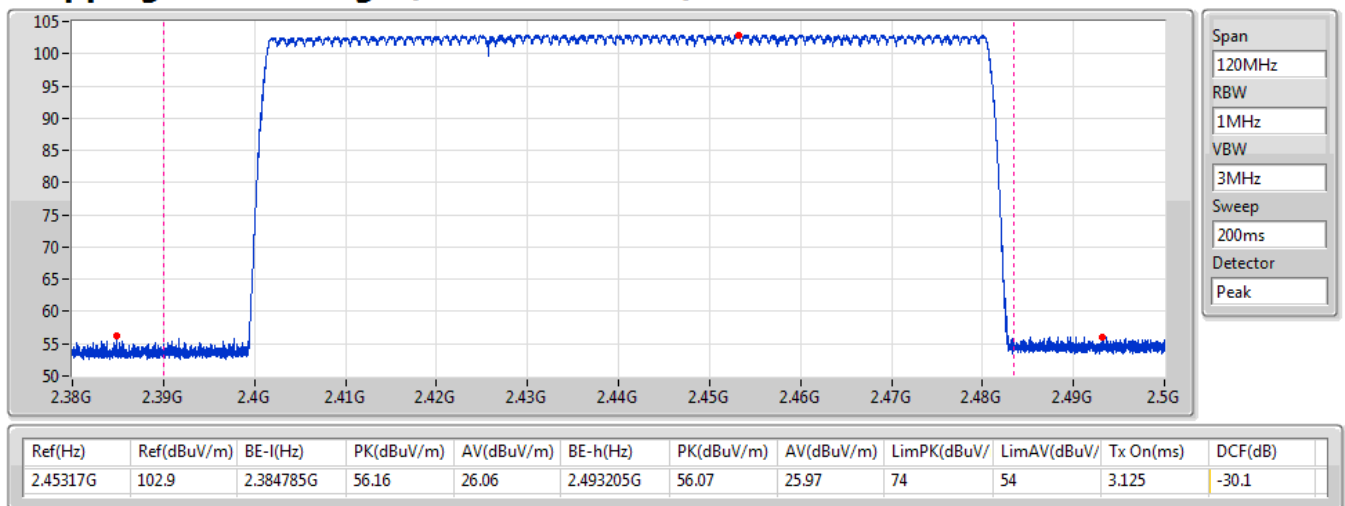


BT-EDR(2Mbps)

2441MHz

Hopping Ch Bandedge (Restricted Band)

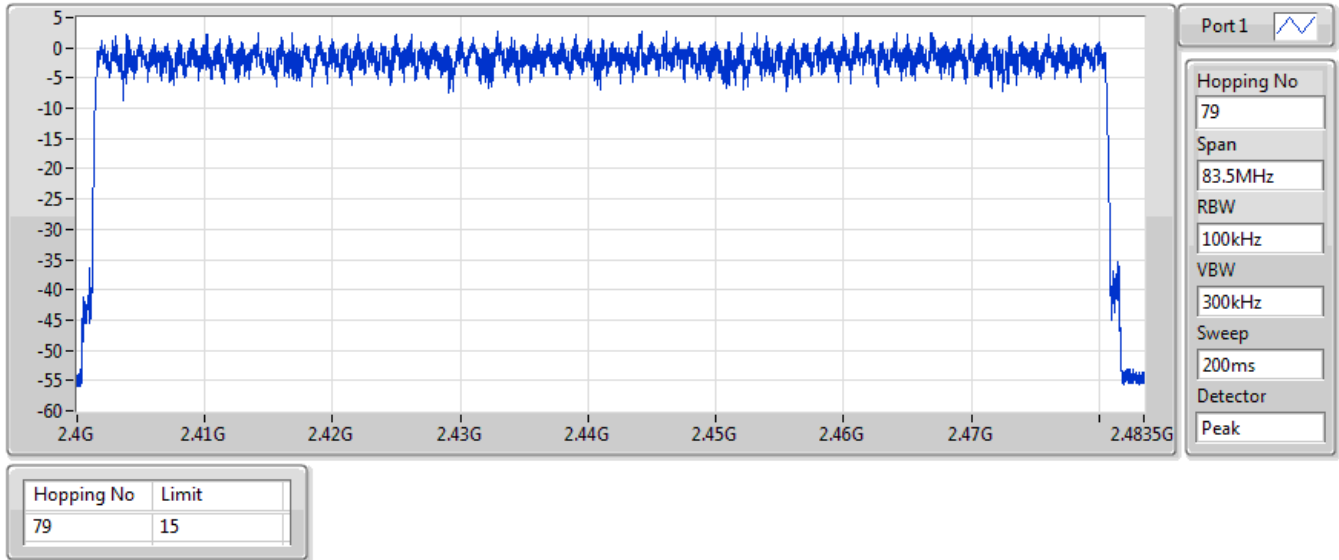
22/05/2019



BT-EDR(3Mbps) 2441MHz

Hopping Ch

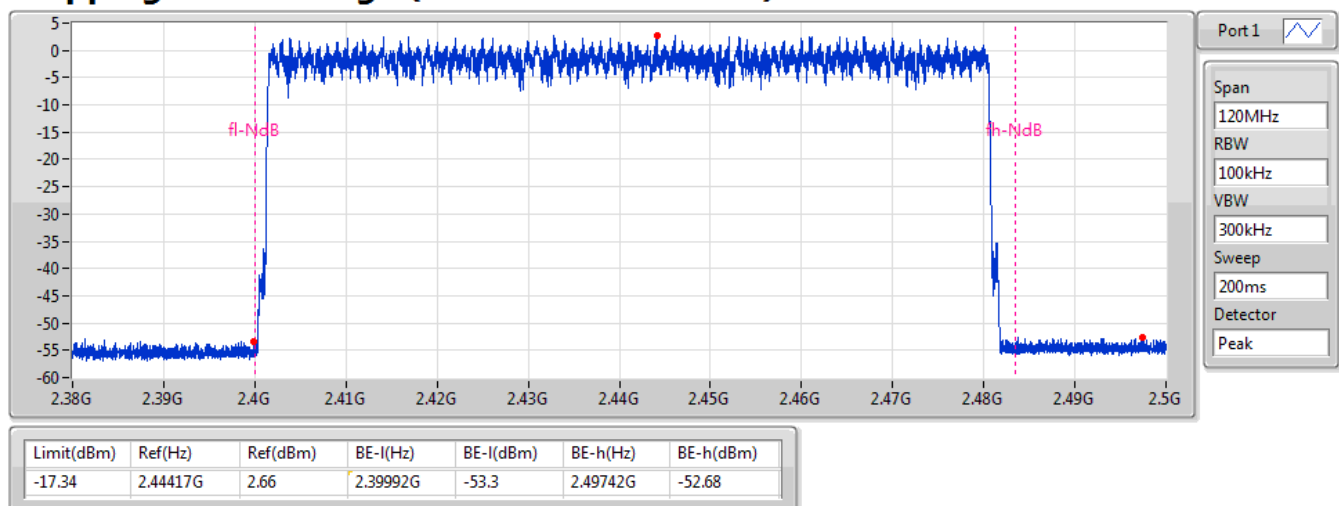
22/05/2019



BT-EDR(3Mbps) 2441MHz

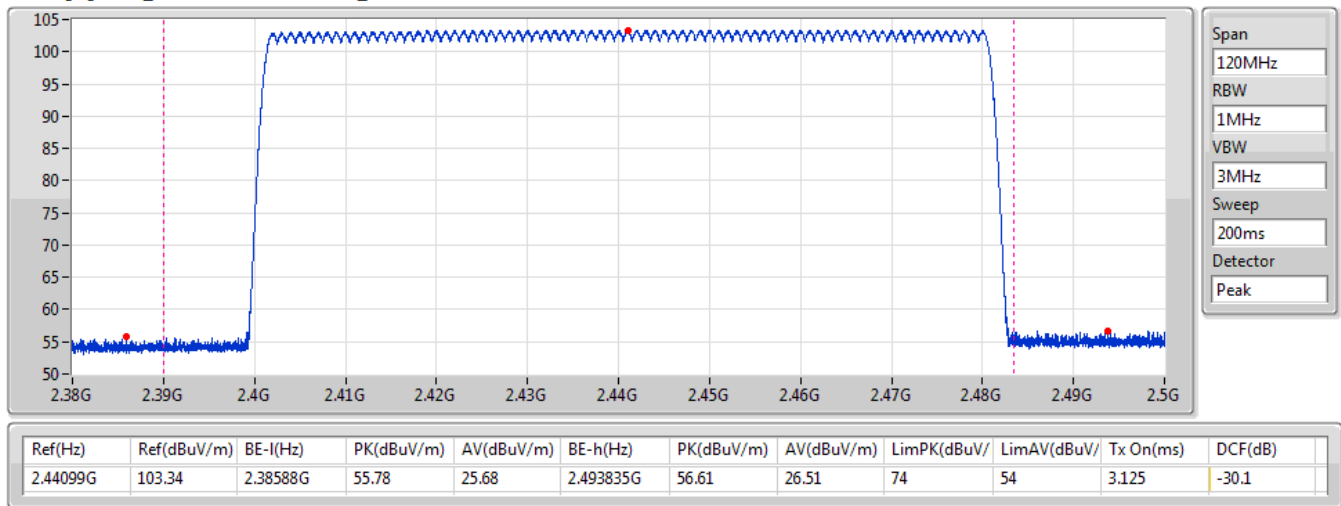
Hopping Ch Bandedge (Non-restricted Band)

22/05/2019



BT-EDR(3Mbps)**2441MHz****Hopping Ch Bandedge (Restricted Band)**

22/05/2019





Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	308.1806m
BT-EDR(2Mbps)	54.366m
BT-EDR(3Mbps)	54.366m

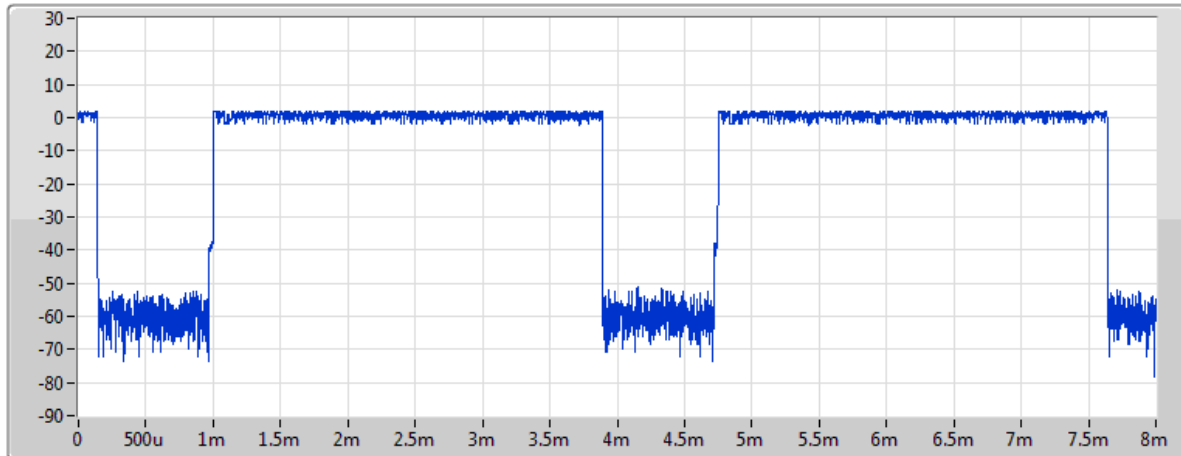
Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2441MHz	Pass	31.6	308.1806m	400m	2.891m
BT-EDR(2Mbps)	-	-	-	-	-
2441MHz	Pass	31.6	54.366m	400m	510u
BT-EDR(3Mbps)	-	-	-	-	-
2441MHz	Pass	31.6	54.366m	400m	510u

BT-BR(1Mbps)

2441MHz

22/05/2019



Port1 

Ch Freq
2.441GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.891ms

non AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.1806m	400m	2.891m

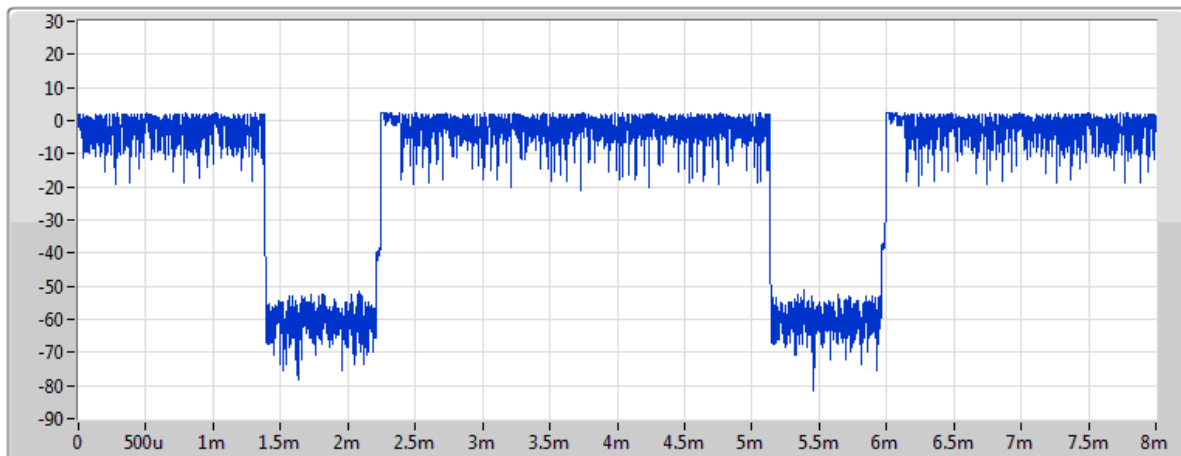
AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
0	154.0903m	400m	2.891m

BT-EDR(2Mbps)

2441MHz

22/05/2019



Port1 

Ch Freq
2.441GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
510us

non AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	54.366m	400m	510u

AFH Mode

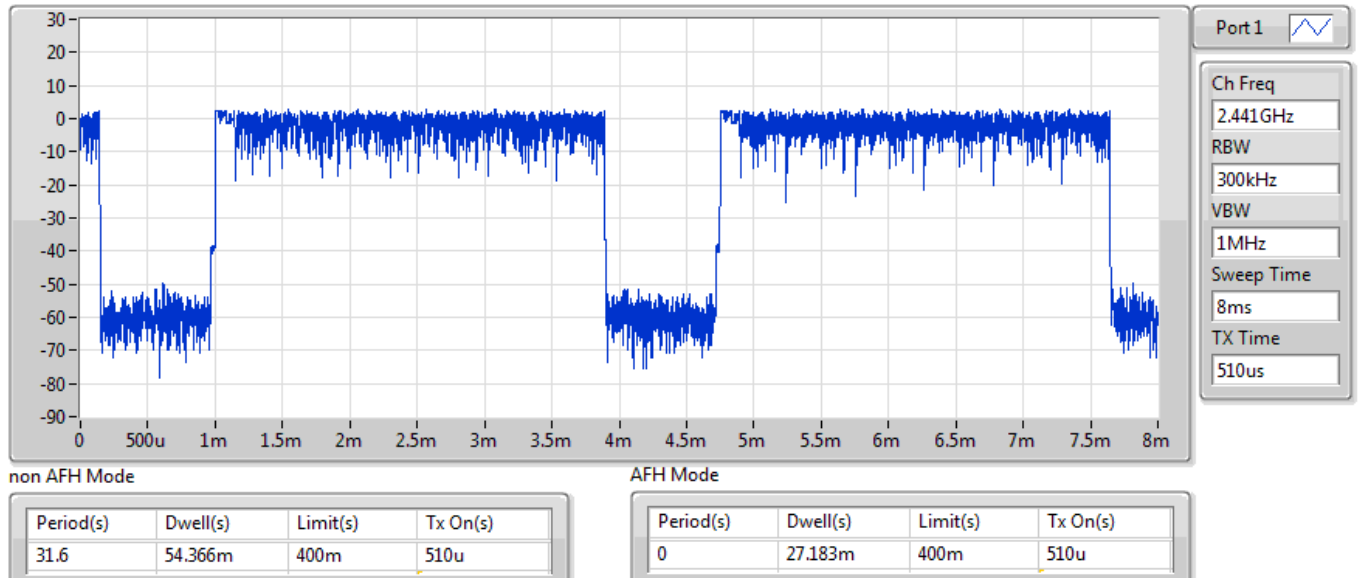
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
0	27.183m	400m	510u

BT-EDR(3Mbps)

2441MHz

22/05/2019

Dwell





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	2.40217G	1.20	-18.80	2.12686G	-64.83	2.3997G	-56.47	2.48433G	-62.72	23.41273G	-51.18	1
BT-EDR(2Mbps)	Pass	2.48008G	1.84	-18.16	2.12538G	-65.06	2.39841G	-63.77	2.48379G	-59.10	24.76923G	-51.53	1
BT-EDR(3Mbps)	Pass	2.40213G	1.70	-18.30	2.11769G	-64.53	2.39981G	-55.38	2.48549G	-62.90	16.23905G	-51.53	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	2.40217G	1.20	-18.80	2.12686G	-64.83	2.3997G	-56.47	2.48433G	-62.72	23.41273G	-51.18	1
2441MHz	Pass	2.44104G	1.31	-18.69	2.03422G	-61.55	2.39978G	-63.42	2.48501G	-62.91	17.68279G	-51.78	1
2480MHz	Pass	2.47991G	1.98	-18.02	2.06678G	-63.26	2.39955G	-63.93	2.48354G	-60.93	15.33284G	-51.31	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40213G	1.87	-18.13	1.98182G	-64.63	2.39987G	-54.35	2.4842G	-62.66	17.0158G	-51.89	1
2441MHz	Pass	2.441G	2.29	-17.71	2.1689G	-64.35	2.39881G	-63.41	2.48509G	-62.56	23.46339G	-51.90	1
2480MHz	Pass	2.48008G	1.84	-18.16	2.12538G	-65.06	2.39841G	-63.77	2.48379G	-59.10	24.76923G	-51.53	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40213G	1.70	-18.30	2.11769G	-64.53	2.39981G	-55.38	2.48549G	-62.90	16.23905G	-51.53	1
2441MHz	Pass	2.44117G	2.54	-17.46	1.79031G	-65.01	2.39801G	-63.30	2.48351G	-63.28	23.39866G	-50.84	1
2480MHz	Pass	2.47987G	2.43	-17.57	2.09845G	-64.66	2.39891G	-63.20	2.48351G	-59.72	24.06002G	-51.17	1

BT-BR(1Mbps)

CSE NdB

2402MHz

22/05/2019

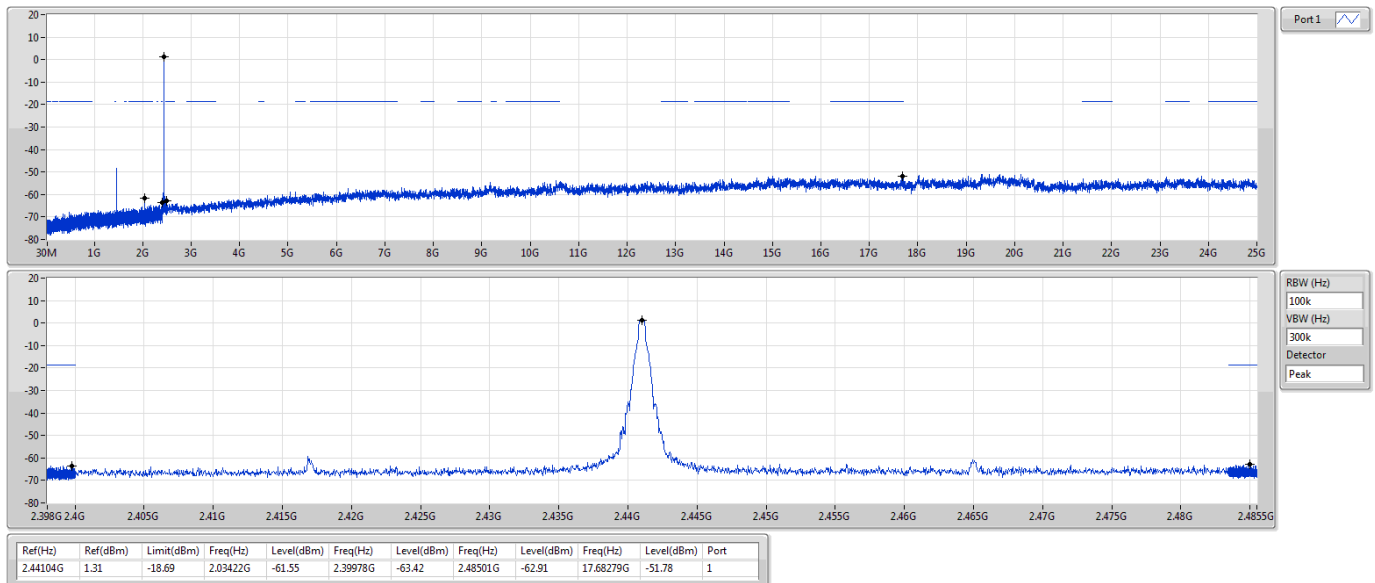


BT-BR(1Mbps)

CSE NdB

2441MHz

22/05/2019



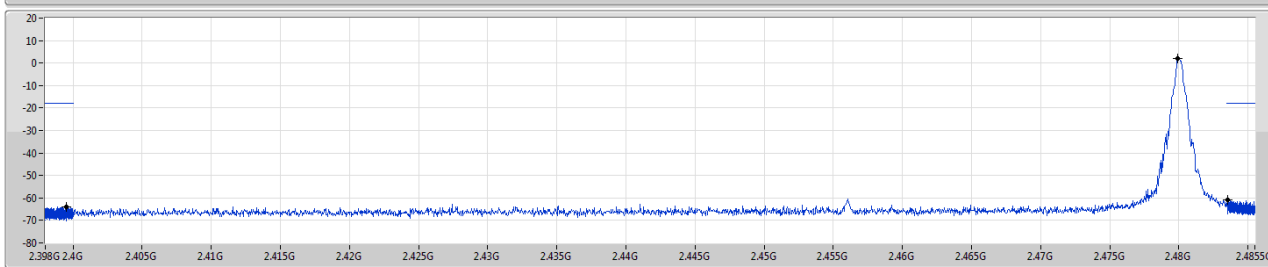
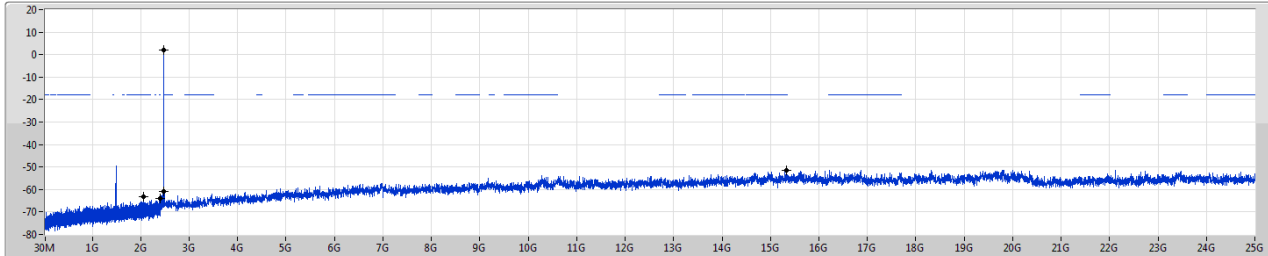
BT-BR(1Mbps)

2480MHz

CSE NdB

22/05/2019

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
2.47991G	1.98	-18.02	2.06678G	-63.26	2.39955G	-63.93	2.48354G	-60.93	15.33284G	-51.31	1

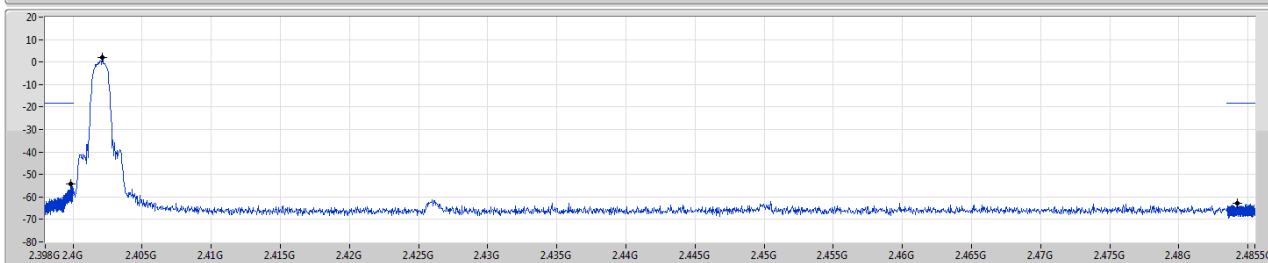
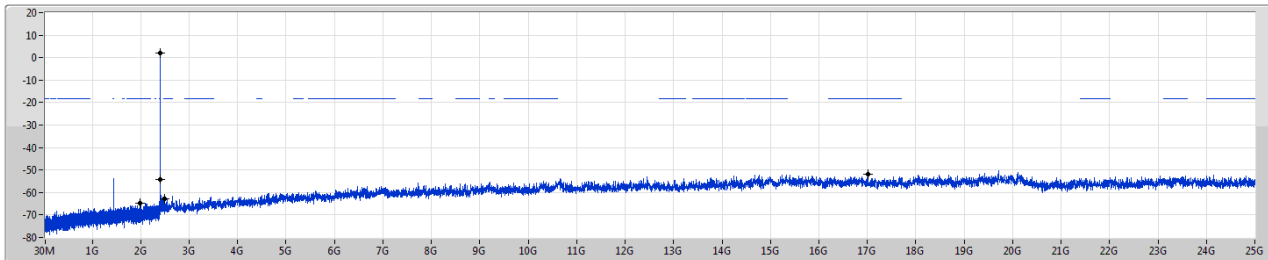
BT-EDR(2Mbps)

2402MHz

CSE NdB

22/05/2019

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
2.40213G	1.87	-18.13	1.98182G	-64.63	2.39987G	-54.35	2.4842G	-62.66	17.0158G	-51.89	1

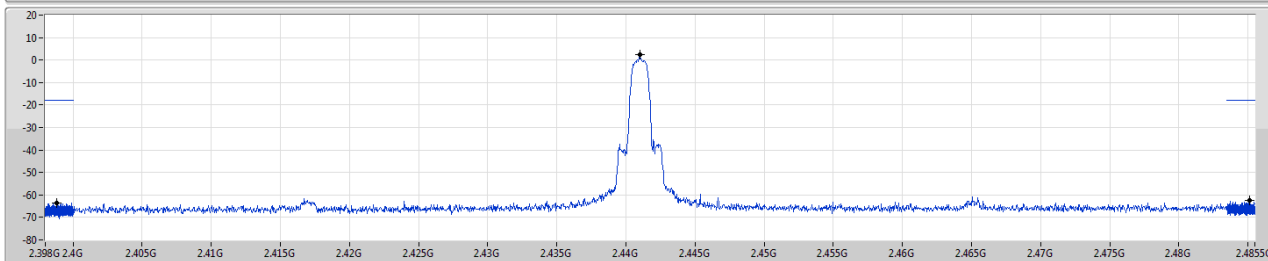
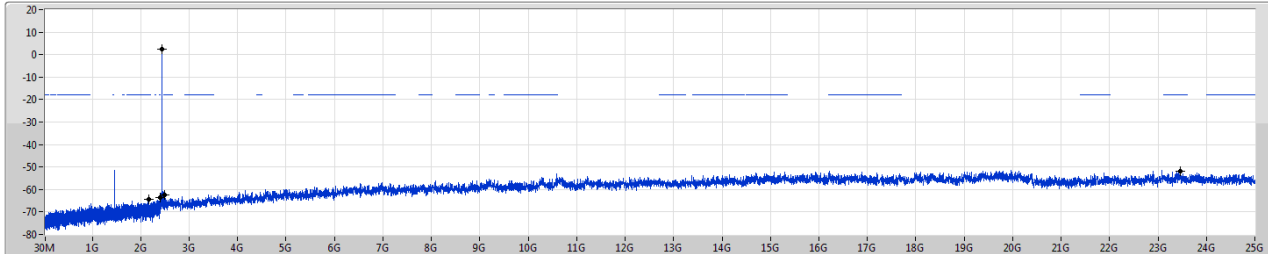
BT-EDR(2Mbps)

2441MHz

CSE NdB

22/05/2019

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
2441G	2.29	-17.71	2.1689G	-64.35	2.39881G	-63.41	2.48509G	-62.56	23.46339G	-51.90	1

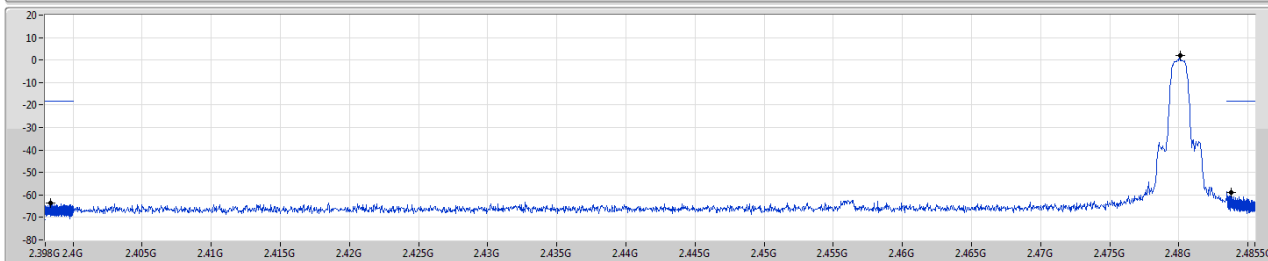
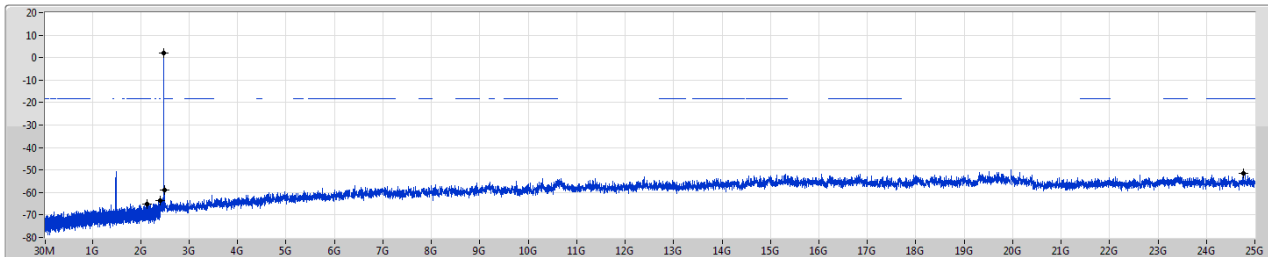
BT-EDR(2Mbps)

2480MHz

CSE NdB

22/05/2019

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
248008G	1.84	-18.16	2.12538G	-65.06	2.39841G	-63.77	2.48379G	-59.10	24.76923G	-51.53	1

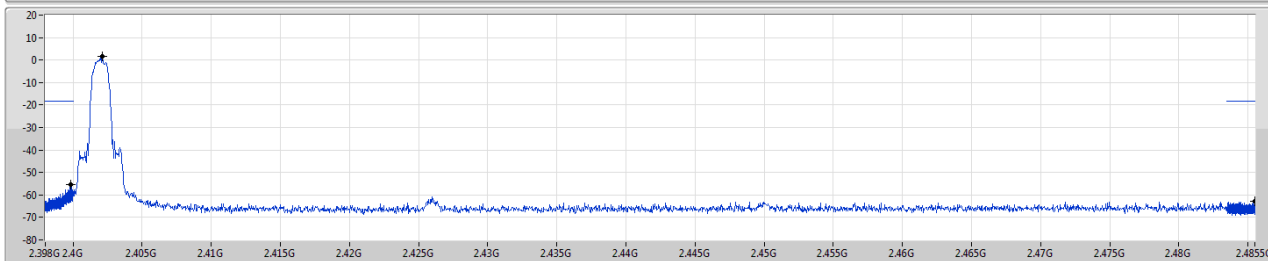
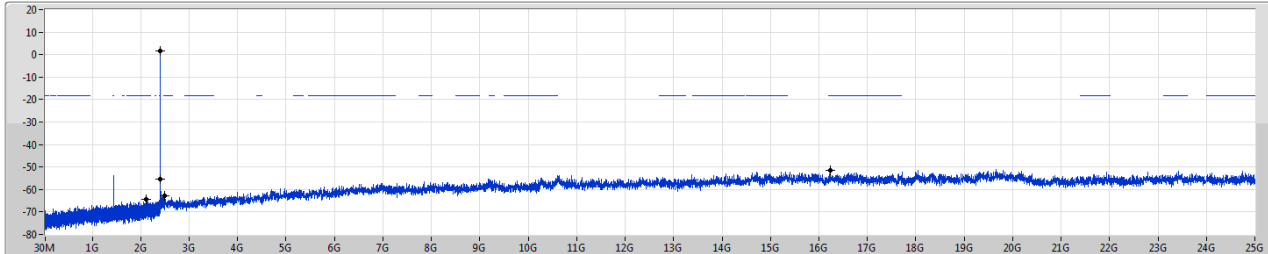
BT-EDR(3Mbps)

2402MHz

CSE NdB

22/05/2019

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
2.40213G	1.70	-18.30	2.11769G	-64.53	2.39981G	-55.38	2.48549G	-62.90	16.23905G	-51.53	1

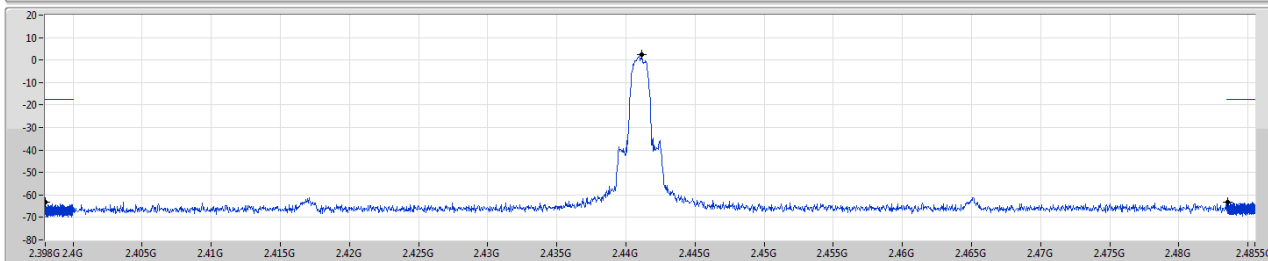
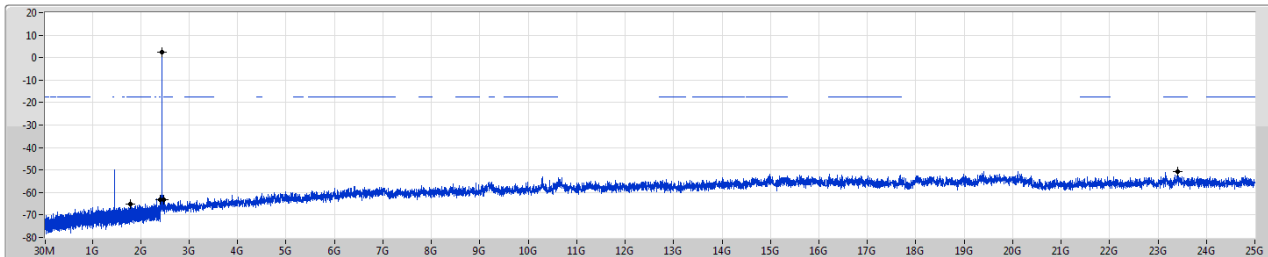
BT-EDR(3Mbps)

2441MHz

CSE NdB

22/05/2019

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
2.44117G	2.54	-17.46	1.79031G	-65.01	2.39801G	-63.30	2.48351G	-63.28	23.39866G	-50.84	1

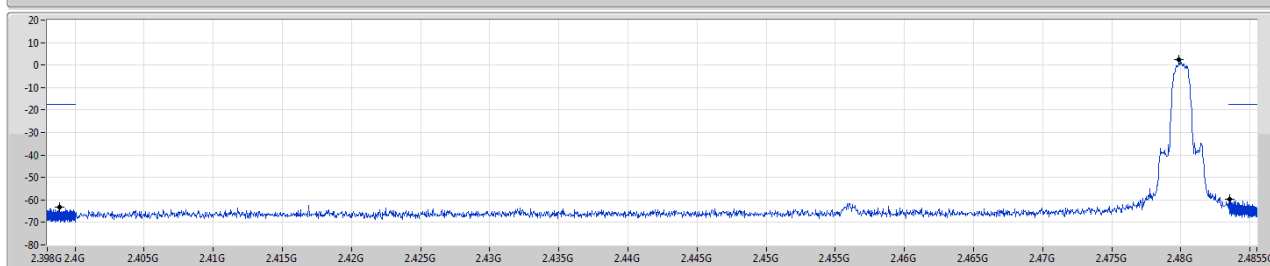
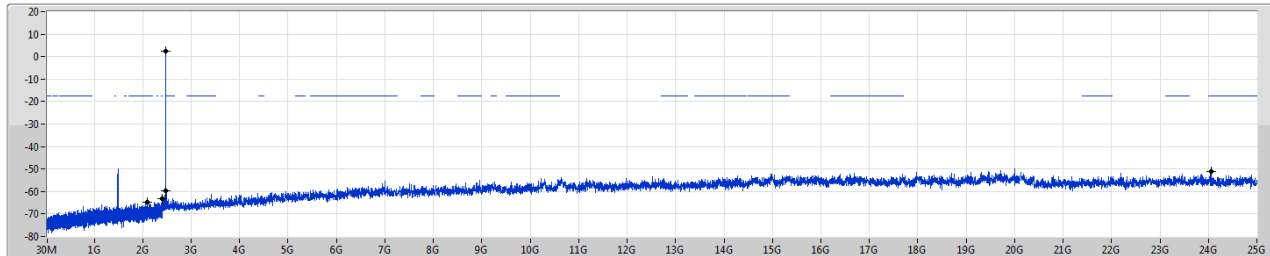
BT-EDR(3Mbps)

2480MHz

CSE NdB

22/05/2019

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
2.47987G	2.43	-17.57	2.09845G	-64.66	2.39891G	-63.20	2.48351G	-59.72	24.06002G	-51.17	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	PK	160.74M	35.54	43.50	-7.96	-15.65	3	Vertical	360	3.00	-

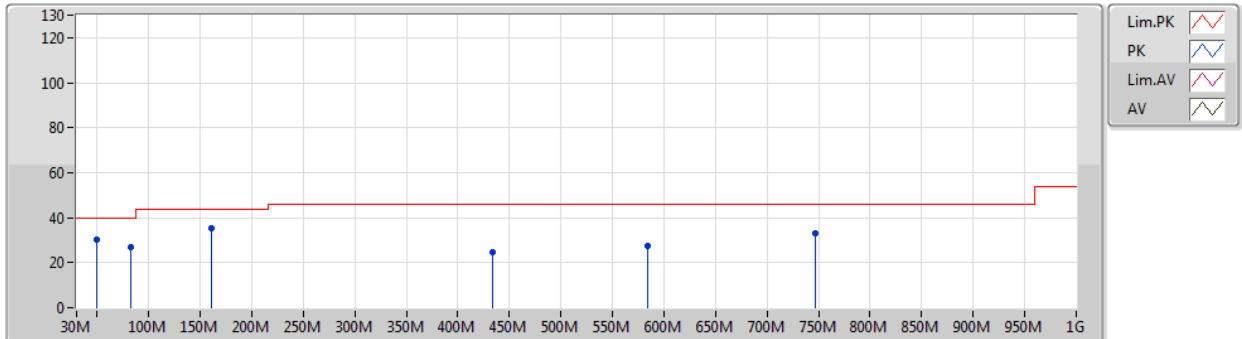
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2441MHz_Adapter Charging	Pass	PK	49.68M	30.52	40.00	-9.48	-17.68	3	Vertical	360	3.00	-
2441MHz_Adapter Charging	Pass	PK	82.01M	27.09	40.00	-12.91	-18.47	3	Vertical	360	3.00	-
2441MHz_Adapter Charging	Pass	PK	160.74M	35.54	43.50	-7.96	-15.65	3	Vertical	360	3.00	-
2441MHz_Adapter Charging	Pass	PK	433.46M	24.41	46.00	-21.59	-7.49	3	Vertical	360	3.00	-
2441MHz_Adapter Charging	Pass	PK	583.88M	27.34	46.00	-18.66	-4.96	3	Vertical	360	3.00	-
2441MHz_Adapter Charging	Pass	PK	746.96M	33.26	46.00	-12.74	-3.18	3	Vertical	360	3.00	-
2441MHz_Adapter Charging	Pass	PK	83.42M	26.00	40.00	-14.00	-18.25	3	Horizontal	360	3.00	-
2441MHz_Adapter Charging	Pass	PK	115.75M	30.89	43.50	-12.61	-13.80	3	Horizontal	360	3.00	-
2441MHz_Adapter Charging	Pass	PK	162.14M	29.76	43.50	-13.74	-15.69	3	Horizontal	360	3.00	-
2441MHz_Adapter Charging	Pass	PK	304.13M	25.15	46.00	-20.85	-11.53	3	Horizontal	360	3.00	-
2441MHz_Adapter Charging	Pass	PK	432.06M	24.57	46.00	-21.43	-7.49	3	Horizontal	360	3.00	-
2441MHz_Adapter Charging	Pass	PK	686.51M	28.53	46.00	-17.47	-3.97	3	Horizontal	360	3.00	-
2441MHz_Battery	Pass	PK	30M	25.25	40.00	-14.75	-8.16	3	Vertical	360	3.00	-
2441MHz_Battery	Pass	PK	91.86M	20.71	43.50	-22.79	-16.73	3	Vertical	360	3.00	-
2441MHz_Battery	Pass	PK	260.55M	20.45	46.00	-25.55	-11.13	3	Vertical	360	3.00	-
2441MHz_Battery	Pass	PK	363.17M	21.86	46.00	-24.14	-9.77	3	Vertical	360	3.00	-
2441MHz_Battery	Pass	PK	432.06M	24.24	46.00	-21.76	-7.49	3	Vertical	360	3.00	-
2441MHz_Battery	Pass	PK	545.93M	26.03	46.00	-19.97	-5.05	3	Vertical	360	3.00	-
2441MHz_Battery	Pass	PK	30M	25.01	40.00	-14.99	-8.16	3	Horizontal	360	3.00	-
2441MHz_Battery	Pass	PK	90.45M	19.63	43.50	-23.87	-17.03	3	Horizontal	360	3.00	-
2441MHz_Battery	Pass	PK	263.36M	20.40	46.00	-25.60	-11.28	3	Horizontal	360	3.00	-
2441MHz_Battery	Pass	PK	436.28M	24.54	46.00	-21.46	-7.47	3	Horizontal	360	3.00	-
2441MHz_Battery	Pass	PK	540.3M	26.71	46.00	-19.29	-5.20	3	Horizontal	360	3.00	-
2441MHz_Battery	Pass	PK	730.09M	35.77	46.00	-10.23	-3.40	3	Horizontal	360	3.00	-

BT-BR(1Mbps)

2441MHz_Adapter Charging

22/05/2019

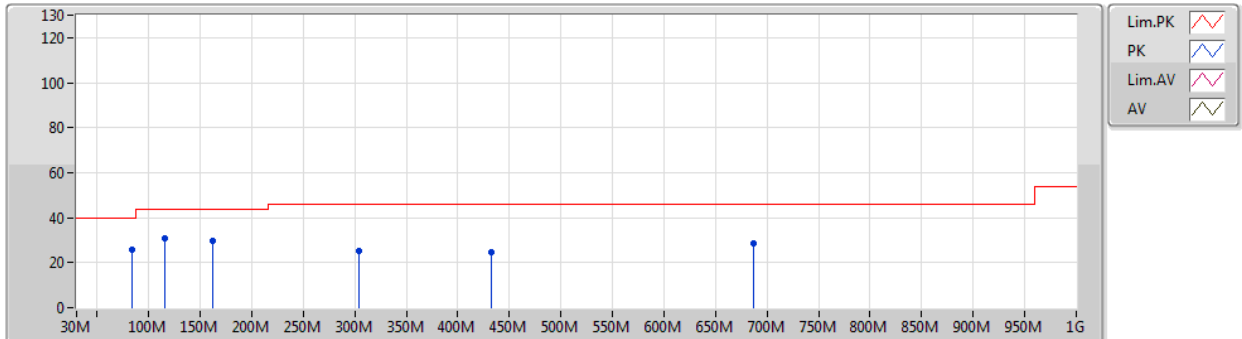


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	49.68M	30.52	40.00	-9.48	-17.68	3	Vertical	360	3.00	-				
PK	82.01M	27.09	40.00	-12.91	-18.47	3	Vertical	360	3.00	-				
PK	160.74M	35.54	43.50	-7.96	-15.65	3	Vertical	360	3.00	-				
PK	433.46M	24.41	46.00	-21.59	-7.49	3	Vertical	360	3.00	-				
PK	583.88M	27.34	46.00	-18.66	-4.96	3	Vertical	360	3.00	-				
PK	746.96M	33.26	46.00	-12.74	-3.18	3	Vertical	360	3.00	-				

BT-BR(1Mbps)

2441MHz_Adapter Charging

22/05/2019

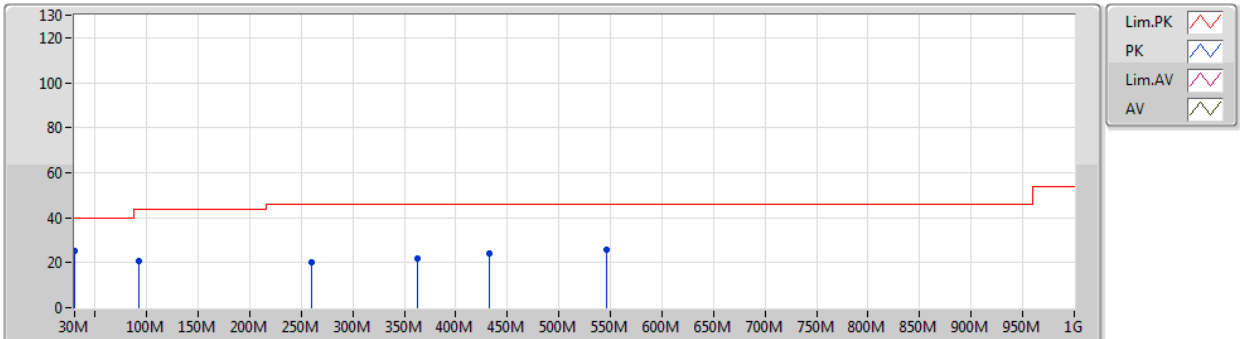


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	83.42M	26.00	40.00	-14.00	-18.25	3	Horizontal	360	3.00	-				
PK	115.75M	30.89	43.50	-12.61	-13.80	3	Horizontal	360	3.00	-				
PK	162.14M	29.76	43.50	-13.74	-15.69	3	Horizontal	360	3.00	-				
PK	304.13M	25.15	46.00	-20.85	-11.53	3	Horizontal	360	3.00	-				
PK	432.06M	24.57	46.00	-21.43	-7.49	3	Horizontal	360	3.00	-				
PK	686.51M	28.53	46.00	-17.47	-3.97	3	Horizontal	360	3.00	-				

BT-BR(1Mbps)

2441MHz_Battery

22/05/2019

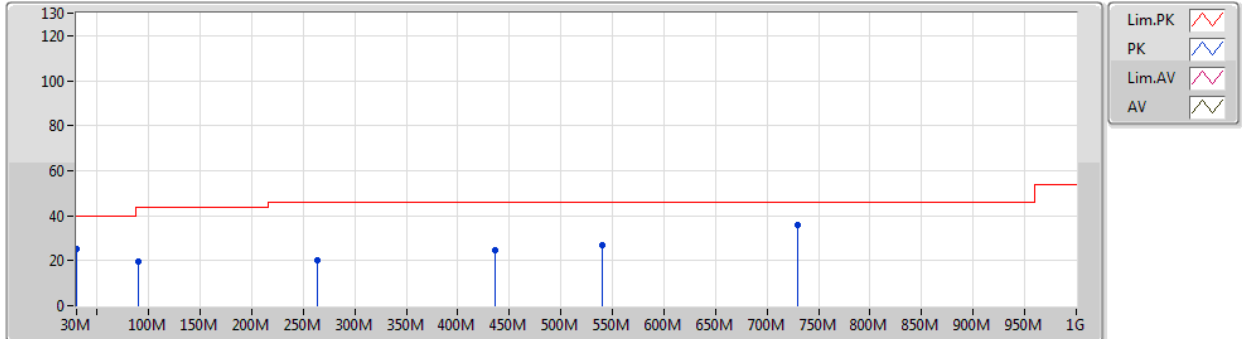


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	30M	25.25	40.00	-14.75	-8.16	3	Vertical	360	3.00	-				
PK	91.86M	20.71	43.50	-22.79	-16.73	3	Vertical	360	3.00	-				
PK	260.55M	20.45	46.00	-25.55	-11.13	3	Vertical	360	3.00	-				
PK	363.17M	21.86	46.00	-24.14	-9.77	3	Vertical	360	3.00	-				
PK	432.06M	24.24	46.00	-21.76	-7.49	3	Vertical	360	3.00	-				
PK	545.93M	26.03	46.00	-19.97	-5.05	3	Vertical	360	3.00	-				

BT-BR(1Mbps)

2441MHz_Battery

22/05/2019



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
PK	30M	25.01	40.00	-14.99	-8.16	3	Horizontal	360	3.00	-				
PK	90.45M	19.63	43.50	-23.87	-17.03	3	Horizontal	360	3.00	-				
PK	263.36M	20.40	46.00	-25.60	-11.28	3	Horizontal	360	3.00	-				
PK	436.28M	24.54	46.00	-21.46	-7.47	3	Horizontal	360	3.00	-				
PK	540.3M	26.71	46.00	-19.29	-5.20	3	Horizontal	360	3.00	-				
PK	730.09M	35.77	46.00	-10.23	-3.40	3	Horizontal	360	3.00	-				



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	PK	2.4962G	59.71	74.00	-14.29	31.35	3	Vertical	192	1.50	-
BT-EDR(3Mbps)	Pass	PK	2.4974G	58.89	74.00	-15.11	31.35	3	Horizontal	171	1.13	-

Result

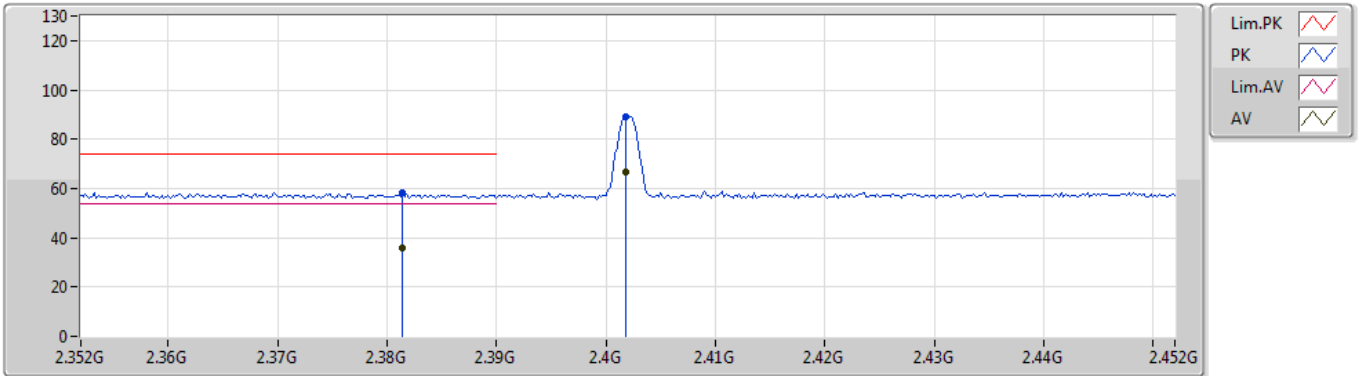
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3814G	35.86	54.00	-18.14	30.93	3	Vertical	59	1.15	-
2402MHz	Pass	AV	2.4018G	66.52	Inf	-Inf	31.00	3	Vertical	59	1.15	-
2402MHz	Pass	PK	2.3814G	58.36	74.00	-15.64	30.93	3	Vertical	59	1.15	-
2402MHz	Pass	PK	2.4018G	89.02	Inf	-Inf	31.00	3	Vertical	59	1.15	-
2402MHz	Pass	AV	2.379G	35.44	54.00	-18.56	30.92	3	Horizontal	100	1.03	-
2402MHz	Pass	AV	2.402G	76.12	Inf	-Inf	31.00	3	Horizontal	100	1.03	-
2402MHz	Pass	PK	2.379G	57.94	74.00	-16.06	30.92	3	Horizontal	100	1.03	-
2402MHz	Pass	PK	2.402G	98.62	Inf	-Inf	31.00	3	Horizontal	100	1.03	-
2402MHz	Pass	AV	4.81816G	21.97	54.00	-32.03	1.65	3	Vertical	120	1.00	-
2402MHz	Pass	PK	4.81816G	44.47	74.00	-29.53	1.65	3	Vertical	120	1.00	-
2402MHz	Pass	AV	4.80232G	21.63	54.00	-32.37	1.61	3	Horizontal	318	1.14	-
2402MHz	Pass	PK	4.80232G	44.13	74.00	-29.87	1.61	3	Horizontal	318	1.14	-
2441MHz	Pass	AV	2.3622G	34.74	54.00	-19.26	30.85	3	Vertical	139	1.18	-
2441MHz	Pass	AV	2.4414G	66.60	Inf	-Inf	31.15	3	Vertical	139	1.18	-
2441MHz	Pass	AV	2.4974G	35.56	54.00	-18.44	31.35	3	Vertical	139	1.18	-
2441MHz	Pass	PK	2.3622G	57.24	74.00	-16.76	30.85	3	Vertical	139	1.18	-
2441MHz	Pass	PK	2.4414G	89.10	Inf	-Inf	31.15	3	Vertical	139	1.18	-
2441MHz	Pass	PK	2.4974G	58.06	74.00	-15.94	31.35	3	Vertical	139	1.18	-
2441MHz	Pass	AV	2.3722G	35.43	54.00	-18.57	30.89	3	Horizontal	102	1.13	-
2441MHz	Pass	AV	2.4414G	75.73	Inf	-Inf	31.15	3	Horizontal	102	1.13	-
2441MHz	Pass	AV	2.4926G	35.77	54.00	-18.23	31.33	3	Horizontal	102	1.13	-
2441MHz	Pass	PK	2.3722G	57.93	74.00	-16.07	30.89	3	Horizontal	102	1.13	-
2441MHz	Pass	PK	2.4414G	98.23	Inf	-Inf	31.15	3	Horizontal	102	1.13	-
2441MHz	Pass	PK	2.4926G	58.27	74.00	-15.73	31.33	3	Horizontal	102	1.13	-
2441MHz	Pass	AV	4.88104G	22.76	54.00	-31.24	1.82	3	Vertical	170	2.22	-
2441MHz	Pass	PK	4.88104G	45.26	74.00	-28.74	1.82	3	Vertical	170	2.22	-
2441MHz	Pass	AV	4.89508G	21.67	54.00	-32.33	1.85	3	Horizontal	270	1.50	-
2441MHz	Pass	PK	4.89508G	44.17	74.00	-29.83	1.85	3	Horizontal	270	1.50	-
2480MHz	Pass	AV	2.4802G	66.20	Inf	-Inf	31.28	3	Vertical	192	1.50	-
2480MHz	Pass	AV	2.4962G	37.21	54.00	-16.79	31.35	3	Vertical	192	1.50	-
2480MHz	Pass	PK	2.4802G	88.70	Inf	-Inf	31.28	3	Vertical	192	1.50	-
2480MHz	Pass	PK	2.4962G	59.71	74.00	-14.29	31.35	3	Vertical	192	1.50	-
2480MHz	Pass	AV	2.48G	74.36	Inf	-Inf	31.28	3	Horizontal	161	1.50	-
2480MHz	Pass	AV	2.4872G	35.91	54.00	-18.09	31.31	3	Horizontal	161	1.50	-
2480MHz	Pass	PK	2.48G	96.86	Inf	-Inf	31.28	3	Horizontal	161	1.50	-
2480MHz	Pass	PK	2.4872G	58.41	74.00	-15.59	31.31	3	Horizontal	161	1.50	-
2480MHz	Pass	AV	4.97092G	22.14	54.00	-31.86	2.05	3	Vertical	175	1.77	-
2480MHz	Pass	PK	4.97092G	44.64	74.00	-29.36	2.05	3	Vertical	175	1.77	-
2480MHz	Pass	AV	4.97296G	32.34	54.00	-21.66	2.05	3	Horizontal	21	1.86	-
2480MHz	Pass	PK	4.94632G	44.06	74.00	-29.94	1.97	3	Horizontal	21	1.86	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3536G	34.99	54.00	-19.01	30.83	3	Vertical	47	1.20	-
2402MHz	Pass	AV	2.4022G	67.32	Inf	-Inf	31.00	3	Vertical	47	1.20	-
2402MHz	Pass	PK	2.3536G	57.49	74.00	-16.51	30.83	3	Vertical	47	1.20	-
2402MHz	Pass	PK	2.4022G	89.73	Inf	-Inf	31.00	3	Vertical	47	1.20	-
2402MHz	Pass	AV	2.3716G	35.28	54.00	-18.72	30.89	3	Horizontal	98	1.05	-
2402MHz	Pass	AV	2.402G	78.01	Inf	-Inf	31.00	3	Horizontal	98	1.05	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2402MHz	Pass	PK	2.3716G	57.78	74.00	-16.22	30.89	3	Horizontal	98	1.05	-
2402MHz	Pass	PK	2.402G	100.51	Inf	-Inf	31.00	3	Horizontal	98	1.05	-
2402MHz	Pass	AV	4.81546G	21.42	54.00	-32.58	1.65	3	Vertical	360	1.06	-
2402MHz	Pass	PK	4.81546G	43.92	74.00	-30.08	1.65	3	Vertical	360	1.06	-
2402MHz	Pass	AV	4.79386G	22.72	54.00	-31.28	1.60	3	Horizontal	319	1.01	-
2402MHz	Pass	PK	4.79386G	45.22	74.00	-28.78	1.60	3	Horizontal	319	1.01	-
2441MHz	Pass	AV	2.3798G	34.51	54.00	-19.49	30.92	3	Vertical	0	1.16	-
2441MHz	Pass	AV	2.4414G	62.09	Inf	-Inf	31.15	3	Vertical	0	1.16	-
2441MHz	Pass	AV	2.4966G	35.64	54.00	-18.36	31.35	3	Vertical	0	1.16	-
2441MHz	Pass	PK	2.3798G	57.01	74.00	-16.99	30.92	3	Vertical	0	1.16	-
2441MHz	Pass	PK	2.4414G	84.59	Inf	-Inf	31.15	3	Vertical	0	1.16	-
2441MHz	Pass	PK	2.4966G	58.14	74.00	-15.86	31.35	3	Vertical	0	1.16	-
2441MHz	Pass	AV	2.3882G	35.37	54.00	-18.63	30.95	3	Horizontal	15	1.21	-
2441MHz	Pass	AV	2.441G	76.33	Inf	-Inf	31.14	3	Horizontal	15	1.21	-
2441MHz	Pass	AV	2.4934G	35.38	54.00	-18.62	31.33	3	Horizontal	15	1.21	-
2441MHz	Pass	PK	2.3882G	57.87	74.00	-16.13	30.95	3	Horizontal	15	1.21	-
2441MHz	Pass	PK	2.441G	98.83	Inf	-Inf	31.14	3	Horizontal	15	1.21	-
2441MHz	Pass	PK	2.4934G	57.88	74.00	-16.12	31.33	3	Horizontal	15	1.21	-
2441MHz	Pass	AV	4.87318G	21.38	54.00	-32.62	1.79	3	Vertical	360	1.84	-
2441MHz	Pass	PK	4.87318G	43.88	74.00	-30.12	1.79	3	Vertical	360	1.84	-
2441MHz	Pass	AV	4.87426G	21.97	54.00	-32.03	1.79	3	Horizontal	360	2.27	-
2441MHz	Pass	PK	4.87426G	44.47	74.00	-29.53	1.79	3	Horizontal	360	2.27	-
2480MHz	Pass	AV	2.48G	66.95	Inf	-Inf	31.28	3	Vertical	119	1.36	-
2480MHz	Pass	AV	2.4952G	36.10	54.00	-17.90	31.35	3	Vertical	119	1.36	-
2480MHz	Pass	PK	2.48G	89.45	Inf	-Inf	31.28	3	Vertical	119	1.36	-
2480MHz	Pass	PK	2.4952G	58.60	74.00	-15.40	31.35	3	Vertical	119	1.36	-
2480MHz	Pass	AV	2.48G	77.67	Inf	-Inf	31.28	3	Horizontal	171	1.13	-
2480MHz	Pass	AV	2.4974G	36.39	54.00	-17.61	31.35	3	Horizontal	171	1.13	-
2480MHz	Pass	PK	2.48G	100.17	Inf	-Inf	31.28	3	Horizontal	171	1.13	-
2480MHz	Pass	PK	2.4974G	58.89	74.00	-15.11	31.35	3	Horizontal	171	1.13	-
2480MHz	Pass	AV	4.9714G	21.80	54.00	-32.20	2.05	3	Vertical	31	2.34	-
2480MHz	Pass	PK	4.9714G	44.30	74.00	-29.70	2.05	3	Vertical	31	2.34	-
2480MHz	Pass	AV	4.94596G	21.86	54.00	-32.14	1.97	3	Horizontal	215	1.50	-
2480MHz	Pass	PK	4.94596G	44.36	74.00	-29.64	1.97	3	Horizontal	215	1.50	-

BT-BR(1Mbps)

22/05/2019

2402MHz_TX

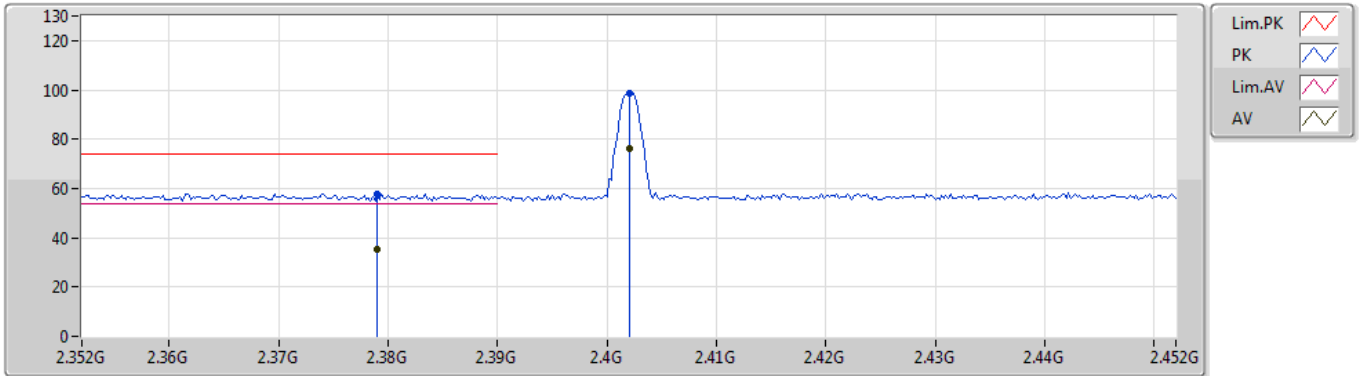


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3814G	35.86	54.00	-18.14	30.93	3	Vertical	59	1.15	-				
AV	2.4018G	66.52	Inf	-Inf	31.00	3	Vertical	59	1.15	-				
PK	2.3814G	58.36	74.00	-15.64	30.93	3	Vertical	59	1.15	-				
PK	2.4018G	89.02	Inf	-Inf	31.00	3	Vertical	59	1.15	-				

BT-BR(1Mbps)

22/05/2019

2402MHz_TX

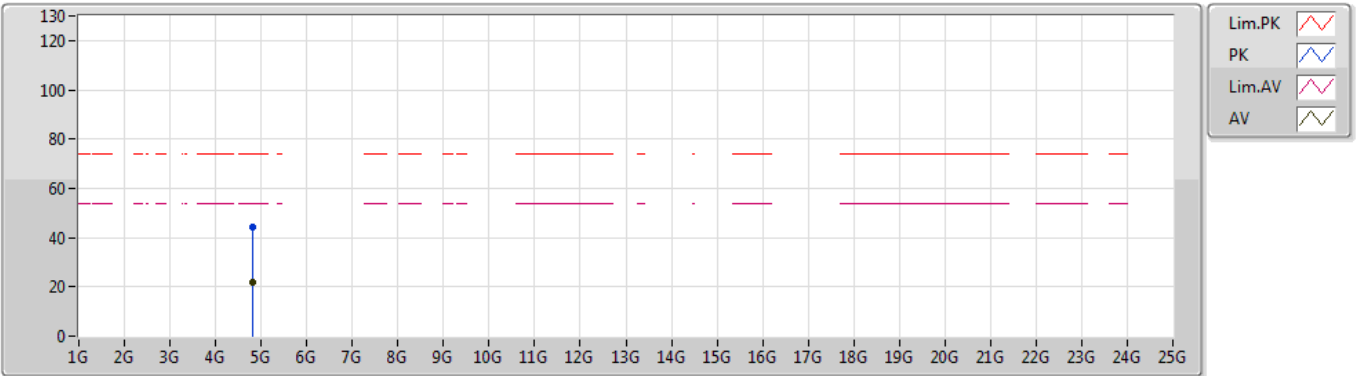


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.379G	35.44	54.00	-18.56	30.92	3	Horizontal	100	1.03	-				
AV	2.402G	76.12	Inf	-Inf	31.00	3	Horizontal	100	1.03	-				
PK	2.379G	57.94	74.00	-16.06	30.92	3	Horizontal	100	1.03	-				
PK	2.402G	98.62	Inf	-Inf	31.00	3	Horizontal	100	1.03	-				

BT-BR(1Mbps)

22/05/2019

2402MHz_TX

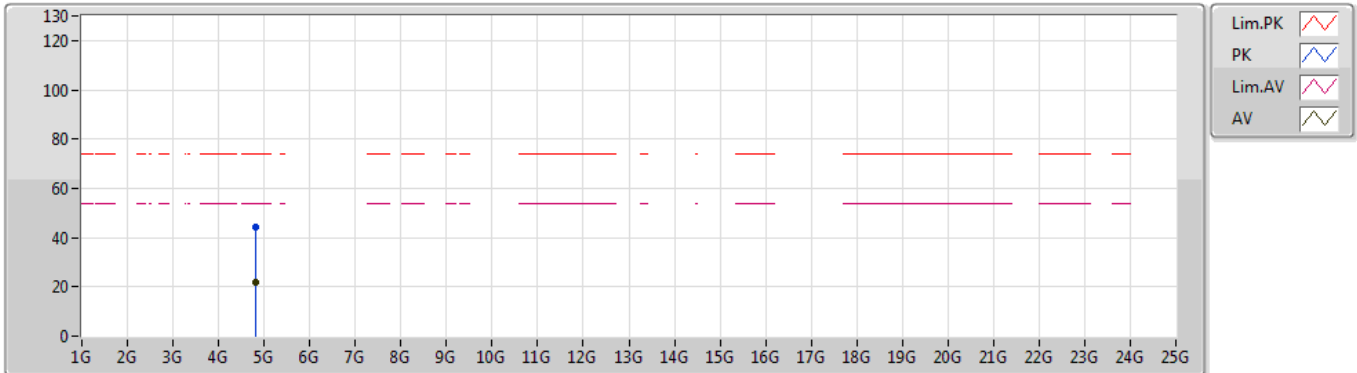


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.81816G	21.97	54.00	-32.03	1.65	3	Vertical	120	1.00	-				
PK	4.81816G	44.47	74.00	-29.53	1.65	3	Vertical	120	1.00	-				

BT-BR(1Mbps)

22/05/2019

2402MHz_TX

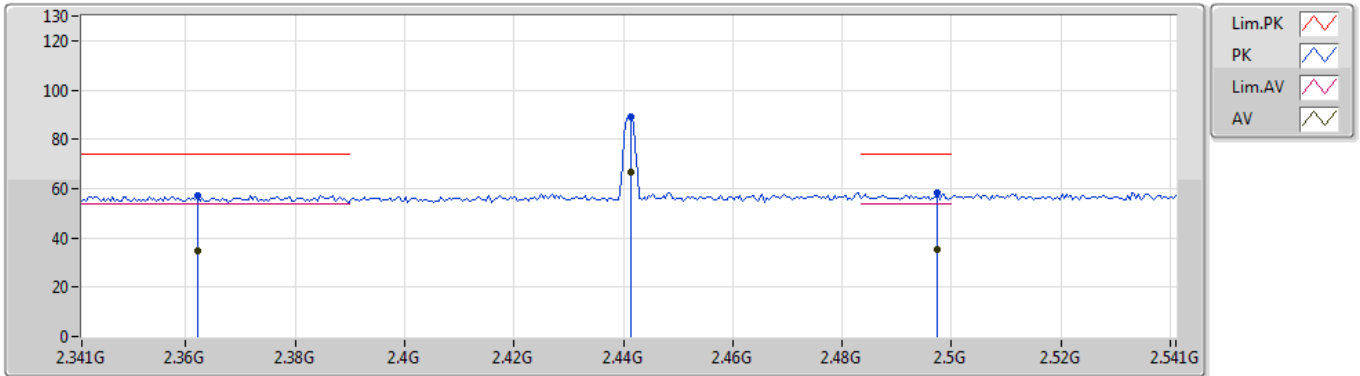


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.80232G	21.63	54.00	-32.37	1.61	3	Horizontal	318	1.14	-				
PK	4.80232G	44.13	74.00	-29.87	1.61	3	Horizontal	318	1.14	-				

BT-BR(1Mbps)

22/05/2019

2441MHz_TX

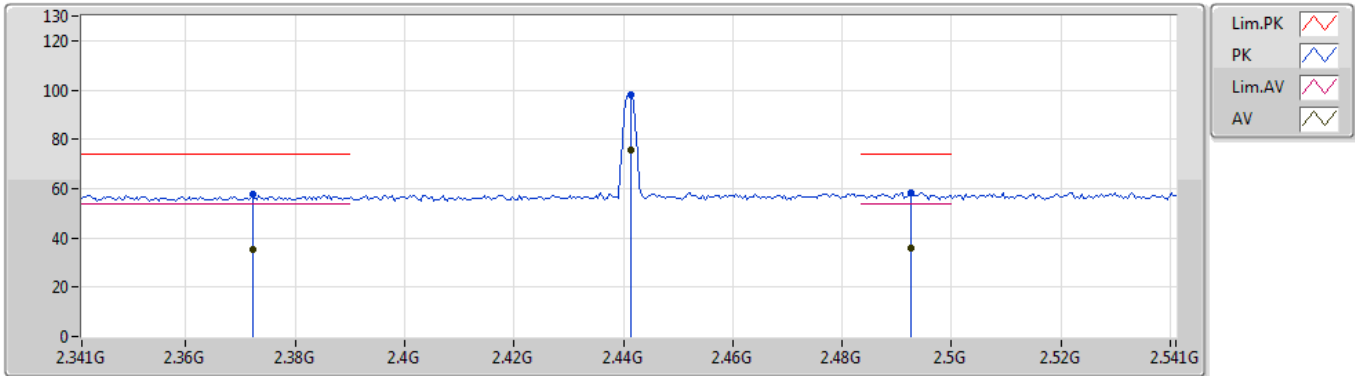


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3622G	34.74	54.00	-19.26	30.85	3	Vertical	139	1.18	-				
AV	2.4414G	66.60	Inf	-Inf	31.15	3	Vertical	139	1.18	-				
AV	2.4974G	35.56	54.00	-18.44	31.35	3	Vertical	139	1.18	-				
PK	2.3622G	57.24	74.00	-16.76	30.85	3	Vertical	139	1.18	-				
PK	2.4414G	89.10	Inf	-Inf	31.15	3	Vertical	139	1.18	-				
PK	2.4974G	58.06	74.00	-15.94	31.35	3	Vertical	139	1.18	-				

BT-BR(1Mbps)

22/05/2019

2441MHz_TX

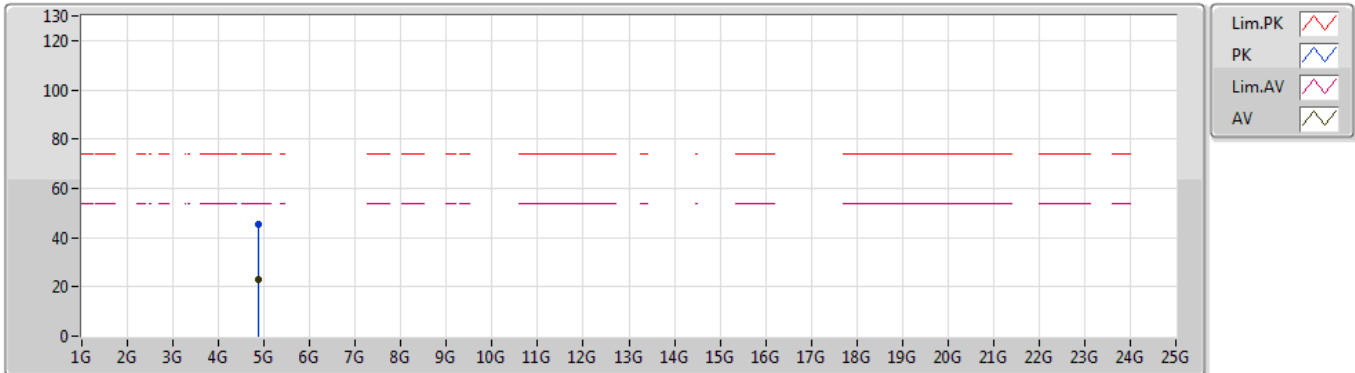


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3722G	35.43	54.00	-18.57	30.89	3	Horizontal	102	1.13	-				
AV	2.4414G	75.73	Inf	-Inf	31.15	3	Horizontal	102	1.13	-				
AV	2.4926G	35.77	54.00	-18.23	31.33	3	Horizontal	102	1.13	-				
PK	2.3722G	57.93	74.00	-16.07	30.89	3	Horizontal	102	1.13	-				
PK	2.4414G	98.23	Inf	-Inf	31.15	3	Horizontal	102	1.13	-				
PK	2.4926G	58.27	74.00	-15.73	31.33	3	Horizontal	102	1.13	-				

BT-BR(1Mbps)

22/05/2019

2441MHz_TX

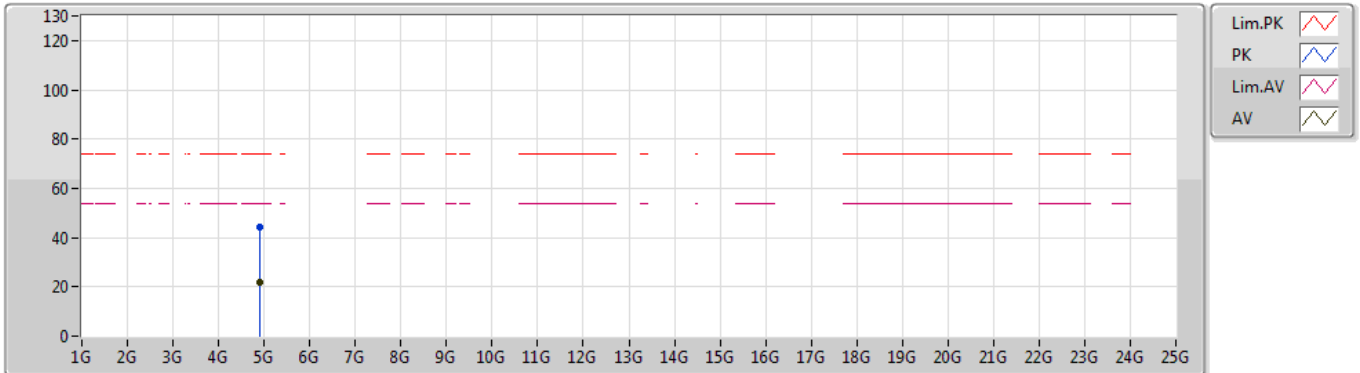


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.88104G	22.76	54.00	-31.24	1.82	3	Vertical	170	2.22	-				
PK	4.88104G	45.26	74.00	-28.74	1.82	3	Vertical	170	2.22	-				

BT-BR(1Mbps)

22/05/2019

2441MHz_TX

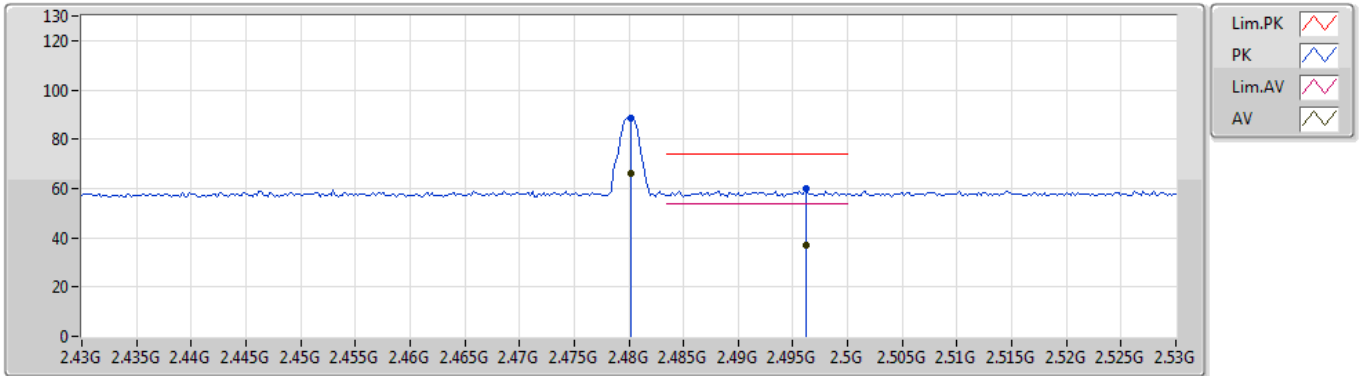


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.89508G	21.67	54.00	-32.33	1.85	3	Horizontal	270	1.50	-				
PK	4.89508G	44.17	74.00	-29.83	1.85	3	Horizontal	270	1.50	-				

BT-BR(1Mbps)

22/05/2019

2480MHz_TX

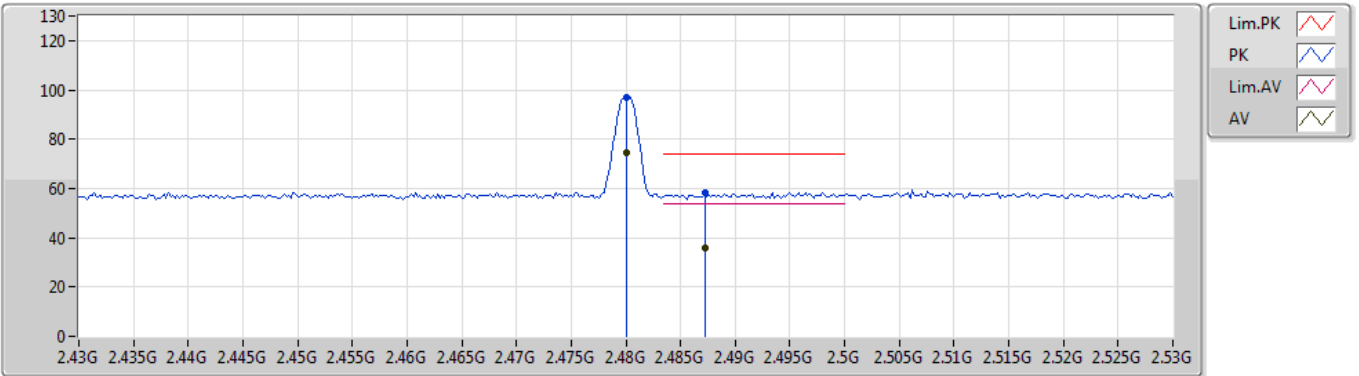


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4802G	66.20	Inf	-Inf	31.28	3	Vertical	192	1.50	-				
AV	2.4962G	37.21	54.00	-16.79	31.35	3	Vertical	192	1.50	-				
PK	2.4802G	88.70	Inf	-Inf	31.28	3	Vertical	192	1.50	-				
PK	2.4962G	59.71	74.00	-14.29	31.35	3	Vertical	192	1.50	-				

BT-BR(1Mbps)

22/05/2019

2480MHz_TX

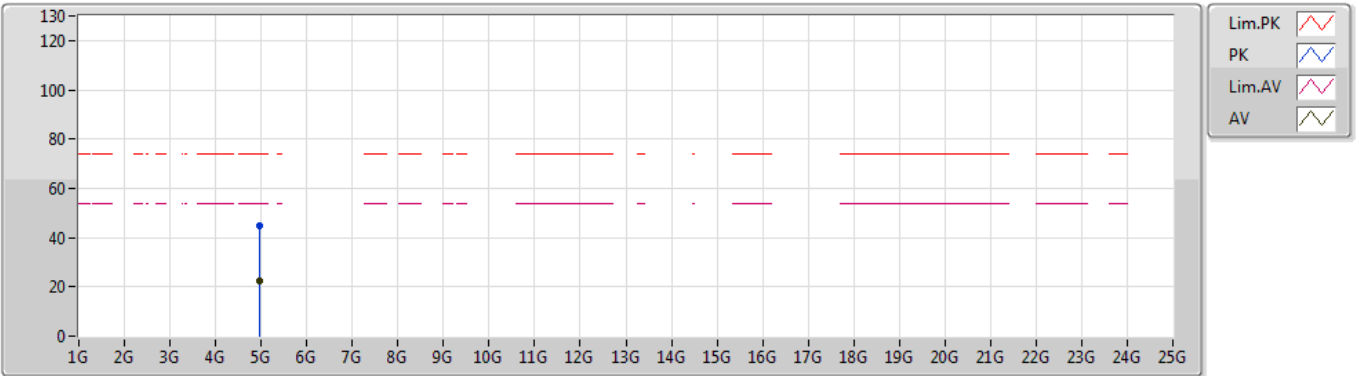


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.48G	74.36	Inf	-Inf	31.28	3	Horizontal	161	1.50	-				
AV	2.4872G	35.91	54.00	-18.09	31.31	3	Horizontal	161	1.50	-				
PK	2.48G	96.86	Inf	-Inf	31.28	3	Horizontal	161	1.50	-				
PK	2.4872G	58.41	74.00	-15.59	31.31	3	Horizontal	161	1.50	-				

BT-BR(1Mbps)

22/05/2019

2480MHz_TX

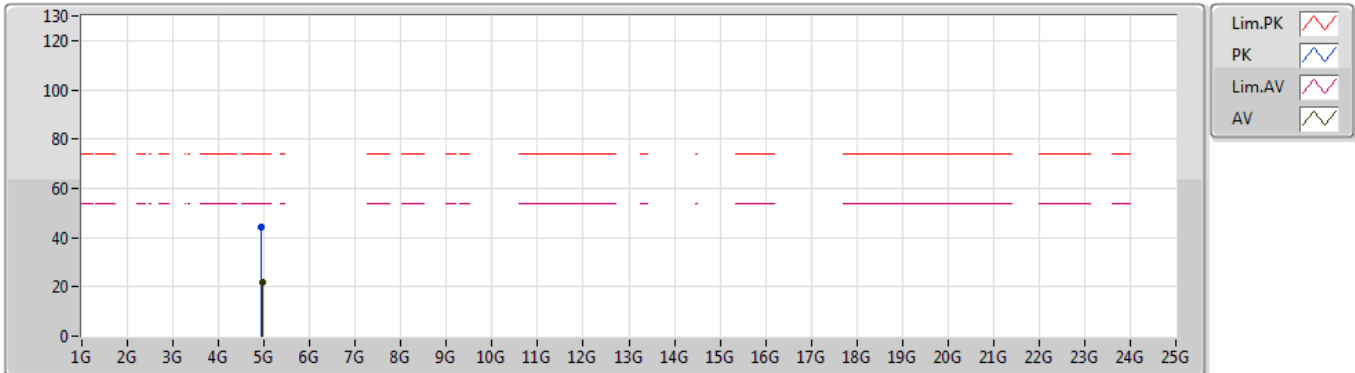


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.97092G	22.14	54.00	-31.86	2.05	3	Vertical	175	1.77	-				
PK	4.97092G	44.64	74.00	-29.36	2.05	3	Vertical	175	1.77	-				

BT-BR(1Mbps)

22/05/2019

2480MHz_TX

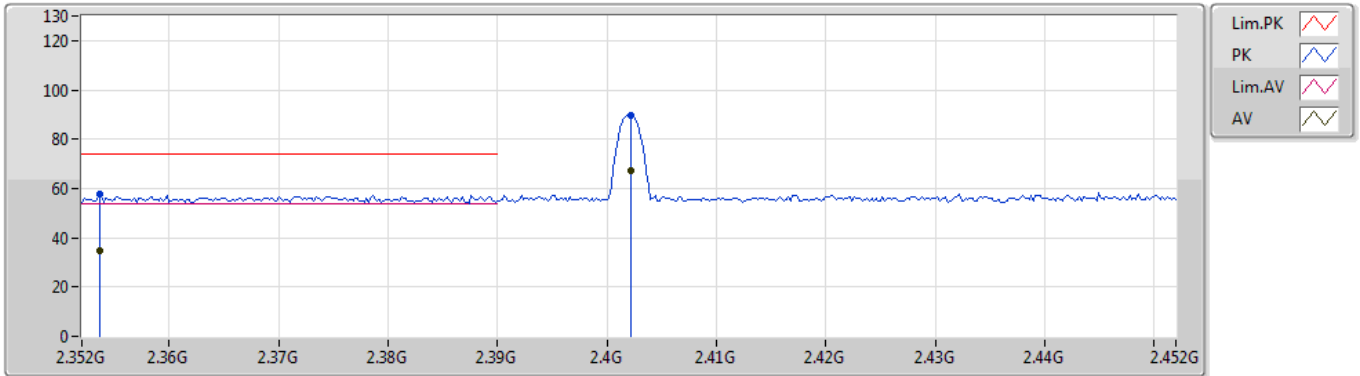


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.97296G	22.01	54.00	-31.99	2.05	3	Horizontal	21	1.86	-				
PK	4.94632G	44.06	74.00	-29.94	1.97	3	Horizontal	21	1.86	-				

BT-EDR(3Mbps)

22/05/2019

2402MHz_TX

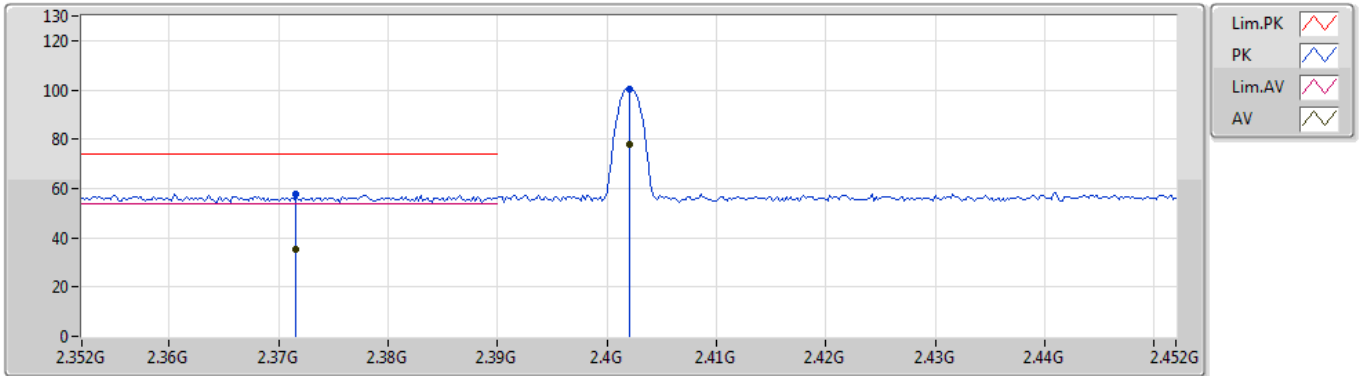


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3536G	34.99	54.00	-19.01	30.83	3	Vertical	47	1.20	-				
AV	2.4022G	67.23	Inf	-Inf	31.00	3	Vertical	47	1.20	-				
PK	2.3536G	57.49	74.00	-16.51	30.83	3	Vertical	47	1.20	-				
PK	2.4022G	89.73	Inf	-Inf	31.00	3	Vertical	47	1.20	-				

BT-EDR(3Mbps)

22/05/2019

2402MHz_TX

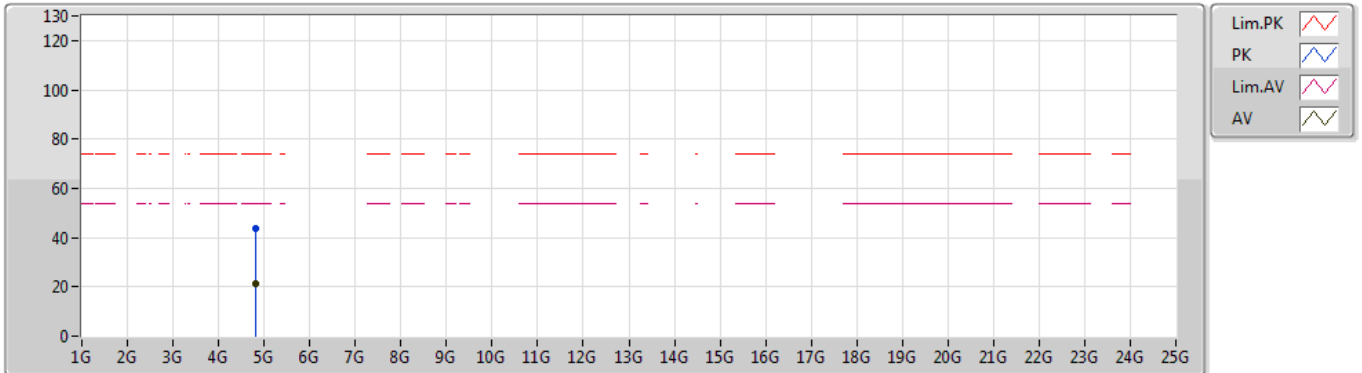


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3716G	35.28	54.00	-18.72	30.89	3	Horizontal	98	1.05	-				
AV	2.402G	78.01	Inf	-Inf	31.00	3	Horizontal	98	1.05	-				
PK	2.3716G	57.78	74.00	-16.22	30.89	3	Horizontal	98	1.05	-				
PK	2.402G	100.51	Inf	-Inf	31.00	3	Horizontal	98	1.05	-				

BT-EDR(3Mbps)

22/05/2019

2402MHz_TX

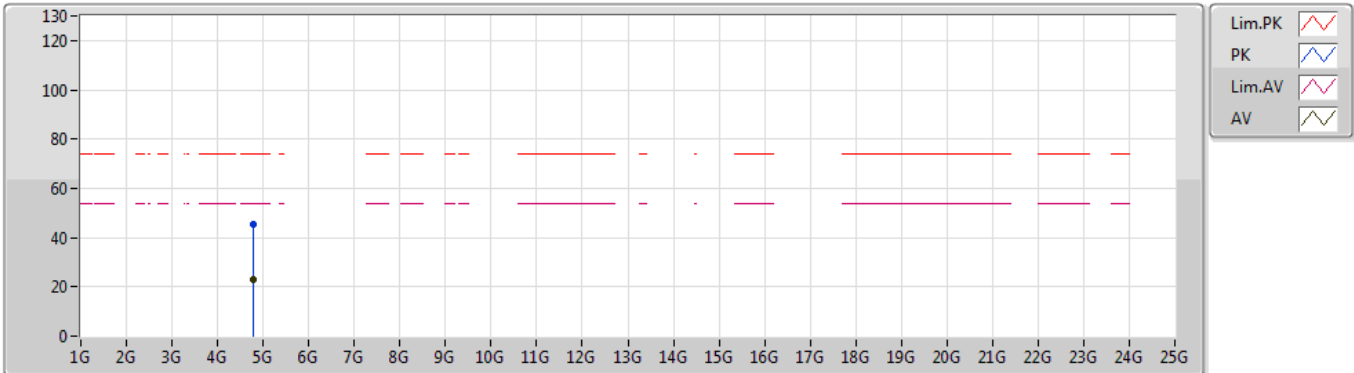


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.81546G	21.42	54.00	-32.58	1.65	3	Vertical	360	1.06	-				
PK	4.81546G	43.92	74.00	-30.08	1.65	3	Vertical	360	1.06	-				

BT-EDR(3Mbps)

22/05/2019

2402MHz_TX

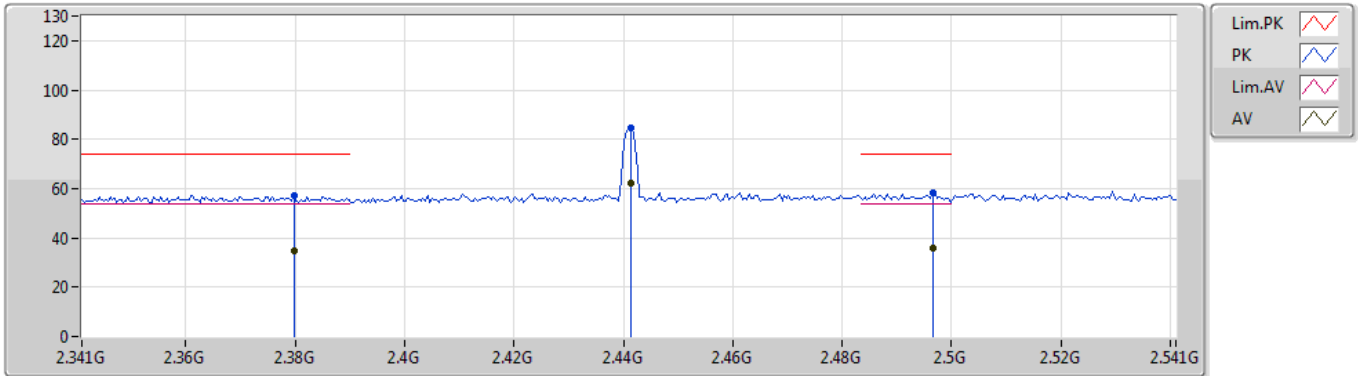


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.79386G	22.72	54.00	-31.28	1.60	3	Horizontal	319	1.01	-				
PK	4.79386G	45.22	74.00	-28.78	1.60	3	Horizontal	319	1.01	-				

BT-EDR(3Mbps)

22/05/2019

2441MHz_TX

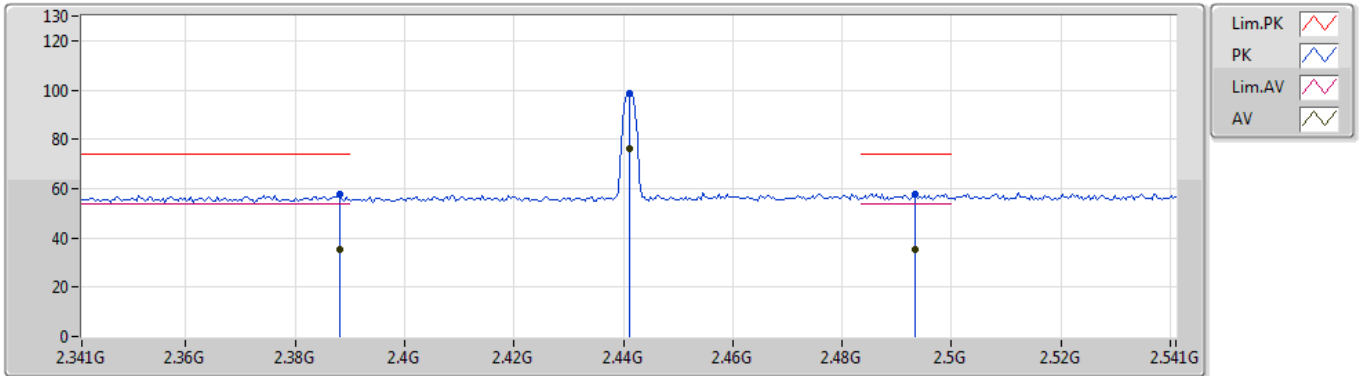


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3798G	34.51	54.00	-19.49	30.92	3	Vertical	0	1.16	-				
AV	2.4414G	62.09	Inf	-Inf	31.15	3	Vertical	0	1.16	-				
AV	2.4966G	35.64	54.00	-18.36	31.35	3	Vertical	0	1.16	-				
PK	2.3798G	57.01	74.00	-16.99	30.92	3	Vertical	0	1.16	-				
PK	2.4414G	84.59	Inf	-Inf	31.15	3	Vertical	0	1.16	-				
PK	2.4966G	58.14	74.00	-15.86	31.35	3	Vertical	0	1.16	-				

BT-EDR(3Mbps)

22/05/2019

2441MHz_TX

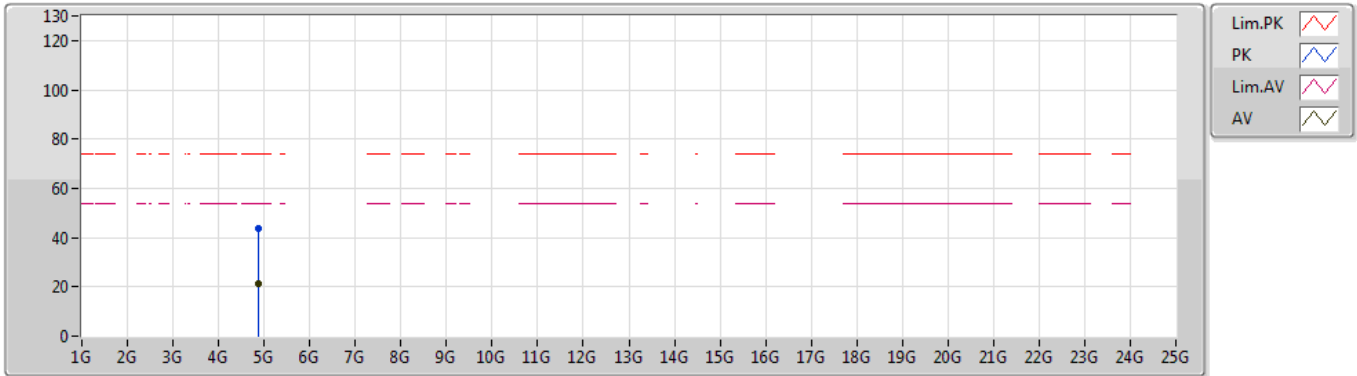


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3882G	35.37	54.00	-18.63	30.95	3	Horizontal	15	1.21	-				
AV	2.441G	76.33	Inf	-Inf	31.14	3	Horizontal	15	1.21	-				
AV	2.4934G	35.38	54.00	-18.62	31.33	3	Horizontal	15	1.21	-				
PK	2.3882G	57.87	74.00	-16.13	30.95	3	Horizontal	15	1.21	-				
PK	2.441G	98.83	Inf	-Inf	31.14	3	Horizontal	15	1.21	-				
PK	2.4934G	57.88	74.00	-16.12	31.33	3	Horizontal	15	1.21	-				

BT-EDR(3Mbps)

22/05/2019

2441MHz_TX

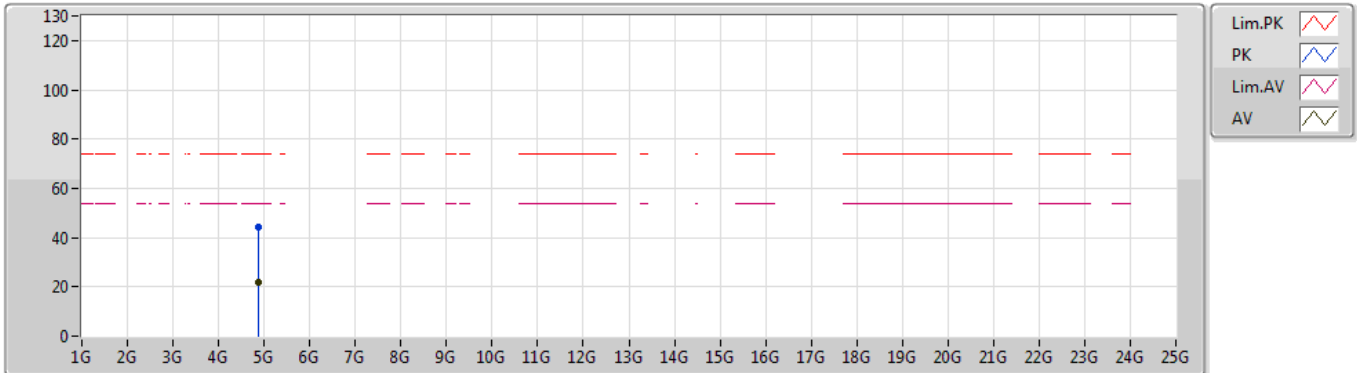


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.87318G	21.38	54.00	-32.62	1.79	3	Vertical	360	1.84	-				
PK	4.87318G	43.88	74.00	-30.12	1.79	3	Vertical	360	1.84	-				

BT-EDR(3Mbps)

22/05/2019

2441MHz_TX

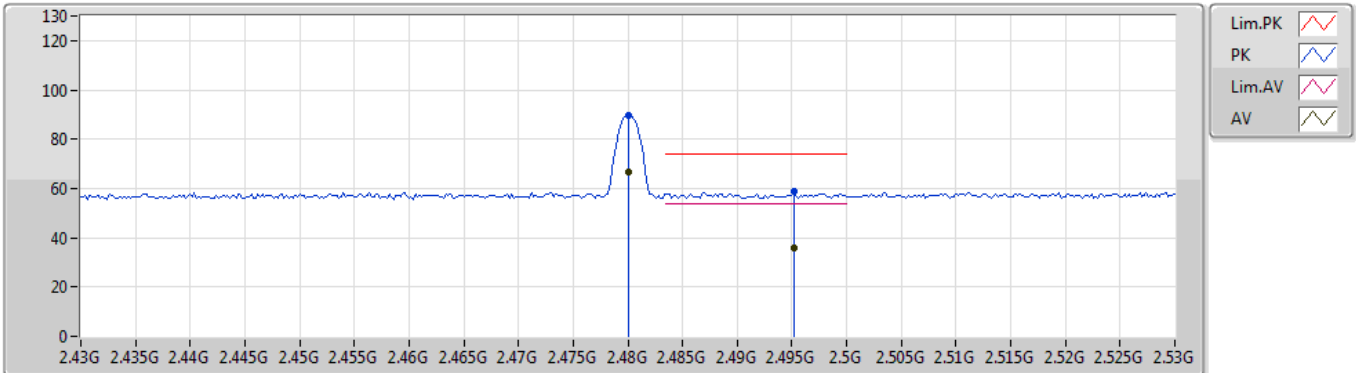


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.87426G	21.97	54.00	-32.03	1.79	3	Horizontal	360	2.27	-				
PK	4.87426G	44.47	74.00	-29.53	1.79	3	Horizontal	360	2.27	-				

BT-EDR(3Mbps)

22/05/2019

2480MHz_TX

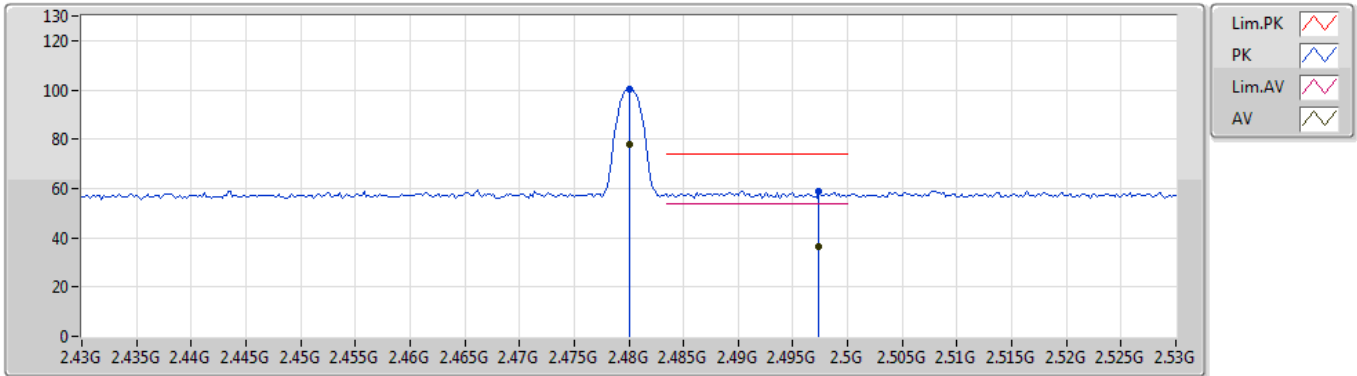


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.48G	66.95	Inf	-Inf	31.28	3	Vertical	119	1.36	-				
AV	2.4952G	36.10	54.00	-17.90	31.35	3	Vertical	119	1.36	-				
PK	2.48G	89.45	Inf	-Inf	31.28	3	Vertical	119	1.36	-				
PK	2.4952G	58.60	74.00	-15.40	31.35	3	Vertical	119	1.36	-				

BT-EDR(3Mbps)

22/05/2019

2480MHz_TX

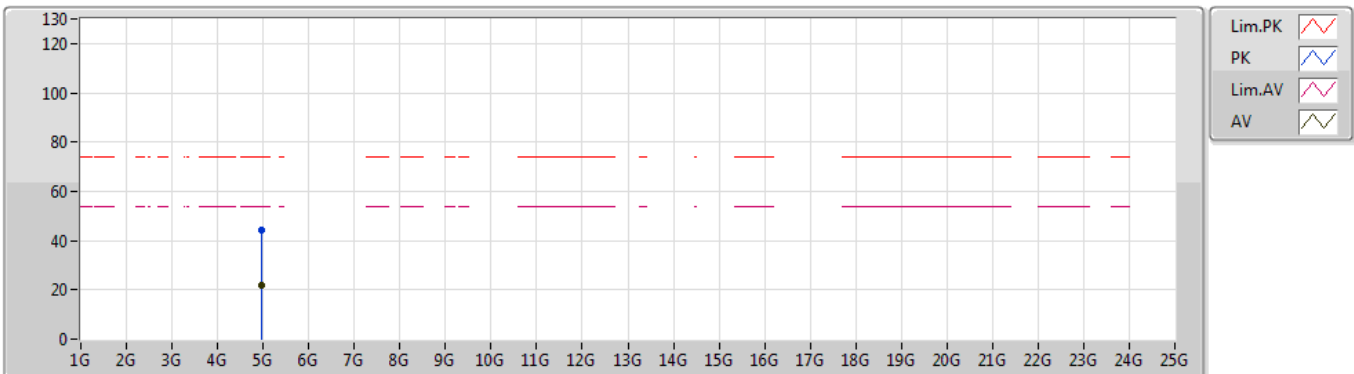


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.48G	77.67	Inf	-Inf	31.28	3	Horizontal	171	1.13	-				
AV	2.4974G	36.39	54.00	-17.61	31.35	3	Horizontal	171	1.13	-				
PK	2.48G	100.17	Inf	-Inf	31.28	3	Horizontal	171	1.13	-				
PK	2.4974G	58.89	74.00	-15.11	31.35	3	Horizontal	171	1.13	-				

BT-EDR(3Mbps)

22/05/2019

2480MHz_TX

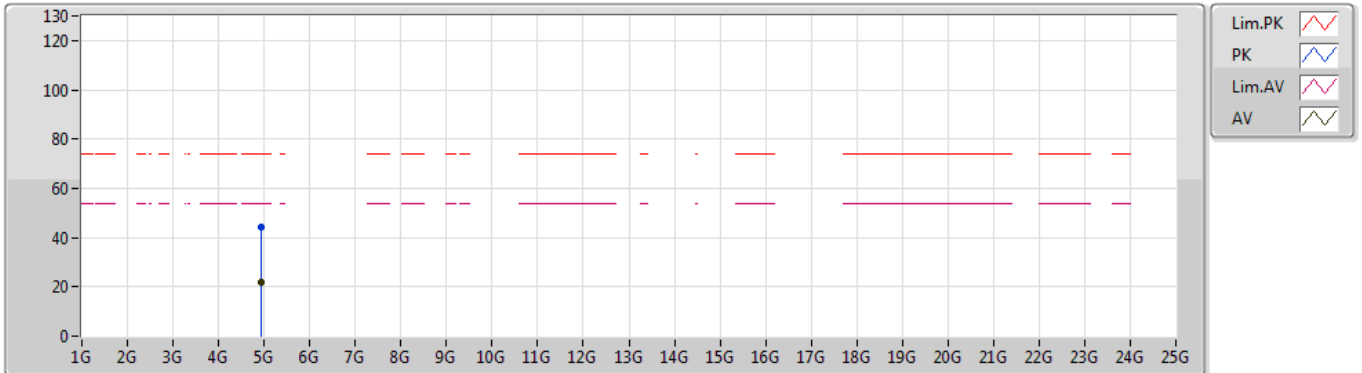


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.9714G	21.80	54.00	-32.20	2.05	3	Vertical	31	2.34	-				
PK	4.9714G	44.30	74.00	-29.70	2.05	3	Vertical	31	2.34	-				

BT-EDR(3Mbps)

22/05/2019

2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.94596G	21.86	54.00	-32.14	1.97	3	Horizontal	215	1.50	-				
PK	4.94596G	44.36	74.00	-29.64	1.97	3	Horizontal	215	1.50	-				