

FCC Test Report

FCC ID : QYL8265FB1
Equipment : Tablet
Brand Name : Getac
Model Name : F110
Applicant : Getac Technology Corporation.
5F., Building A, No. 209, Sec.1, Nangang Rd., Nangang
Dist., Taipei City 11568, Taiwan, R.O.C.
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 09, 2019, and testing was started from Jul. 12, 2019 and completed on Aug. 16, 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: Jackson Tsai

Report Producer: Jenny Yang

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
1 (Main)	-	-	PIFA antenna	I-PEX
2 (Aux)	-	-	PIFA antenna	I-PEX

Ant.	Port	Gain (dBi)					
		2.4G	5G				BT
			U-NII-1	U-NII-2A	U-NII-2C	U-NII-3	
1	1	2.96	3.55	3.47	3.14	2.8	-
2	2	1.83	0.58	0.58	0.8	1.11	1.83

Note 1: The EUT has two antennas.

For 2.4GHz function:

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

Support diversity function and tested on both chains.

For IEEE 802.11 b/g/n mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For 5GHz function:

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

Support diversity function and tested on both chains.

For IEEE 802.11 a/n/ac mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For BT function:

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

Ant. 2 (port 2) can be used as transmitting/receiving antenna.

1.1.3 EUT Information

Identify EUT			
WLAN Module	Brand Name: Intel / Model Name: 8265NGW		
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	2.888m	1k
BT-EDR(2Mbps)	0.769	1.14	2.894m	1k
BT-EDR(3Mbps)	0.769	1.14	2.897m	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

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	Jeff	21.8~24.2°C / 51.3~53.1%	17/Jul/2019
RF Conducted	TH06-HY	Alan	23.5~24.9°C / 65~66.5%	15/Jul/2019~ 16/Aug/2019
Radiated	03CH02-HY	Patrick	23.7~25.9°C / 51.4~56.2%	12/Jul/2019~ 05/Aug/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	120V

2.2 Test Channel Mode

Test Software	N/A
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Note: The EUT linked with the remote base station CBT32 to continuous transmission of signals.

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

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	CTX
1	Adapter 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. Simultaneous transmission was estimated to be pass by applicant		
Operating Mode < 1GHz	CTX		
1	Adapter mode		
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				
AC Adapter	Brand Name	Chicony	Model Name	A12-065N2A
	Power Rating	I/P: 100-240Vac, 1.7A, O/P: 19Vdc, 3.42 A, 65W		
	AC Power Cord	1.7meter, non-shielded cable, w/o ferrite core		
	DC Power Cable	1.7meter, non-shielded cable, with a ferrite core		
Battery *2	Brand Name	Getac	Model Name	BP3S1P2160-S
	Power Rating	11.4Vdc, 2160mAh	Type	Li-ion

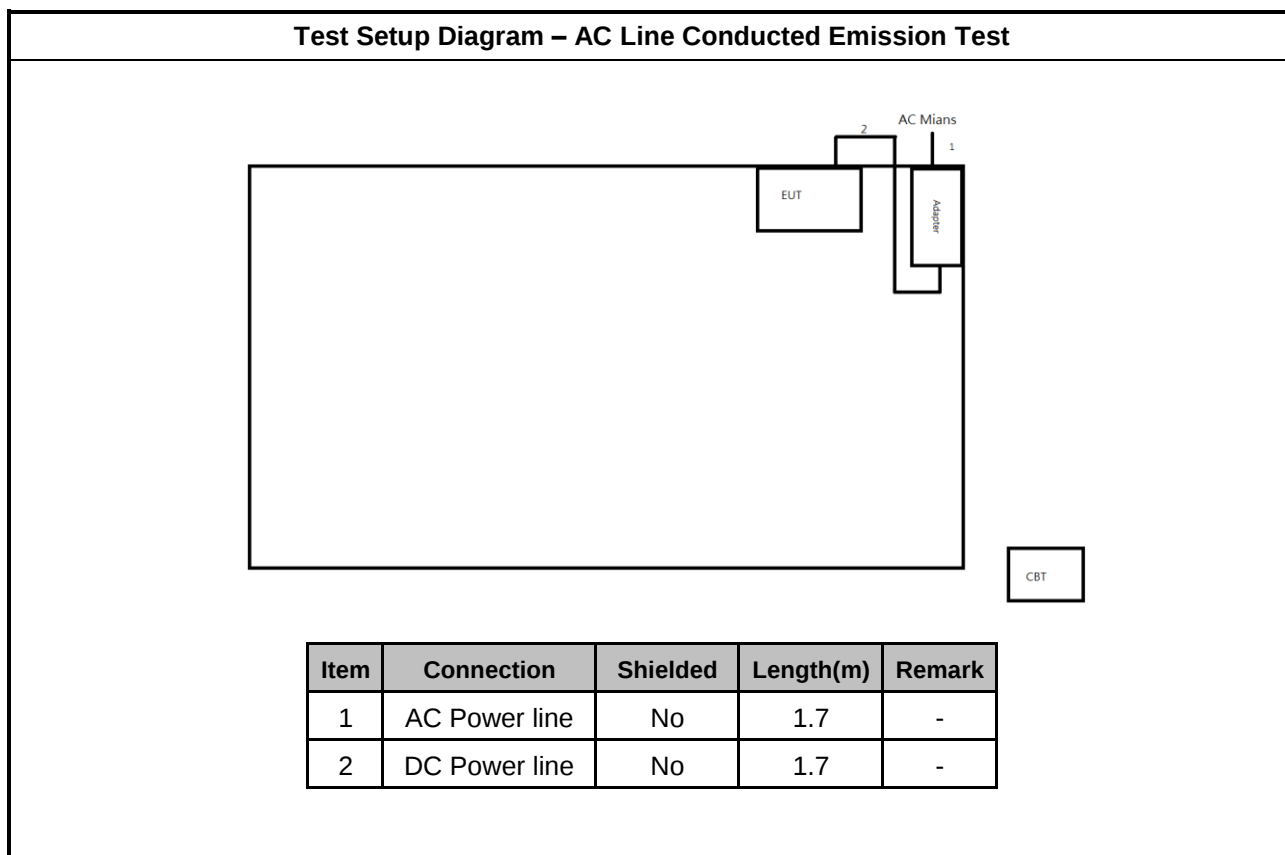
Reminder: Regarding to more detail and other information, please refer to user manual.

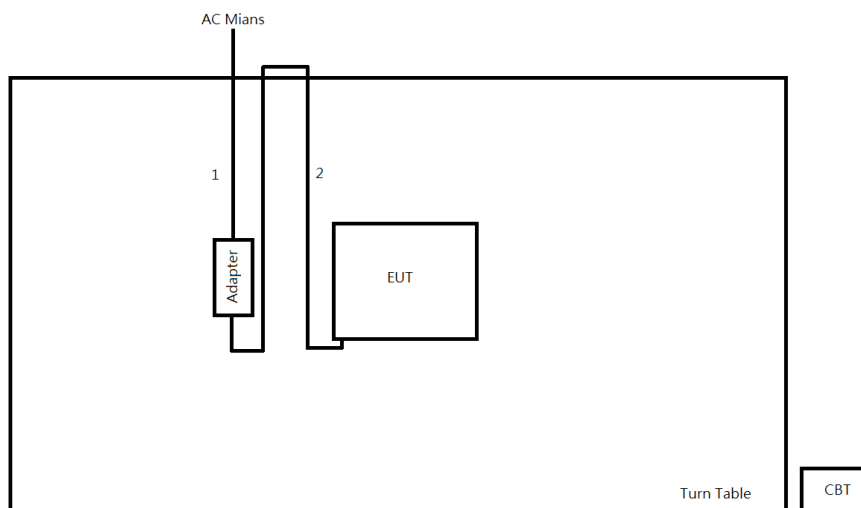
Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Bluetooth Tester (remote)	R&S	CBT	-

Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	HA65NM130	DoC
3	AC Power Source	GW	APS-9102	-
4	Bluetooth Tester	R&S	CBT	-

Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Bluetooth Tester (remote)	R&S	CBT	-

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.7	-
2	DC Power line	No	1.7	-

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.

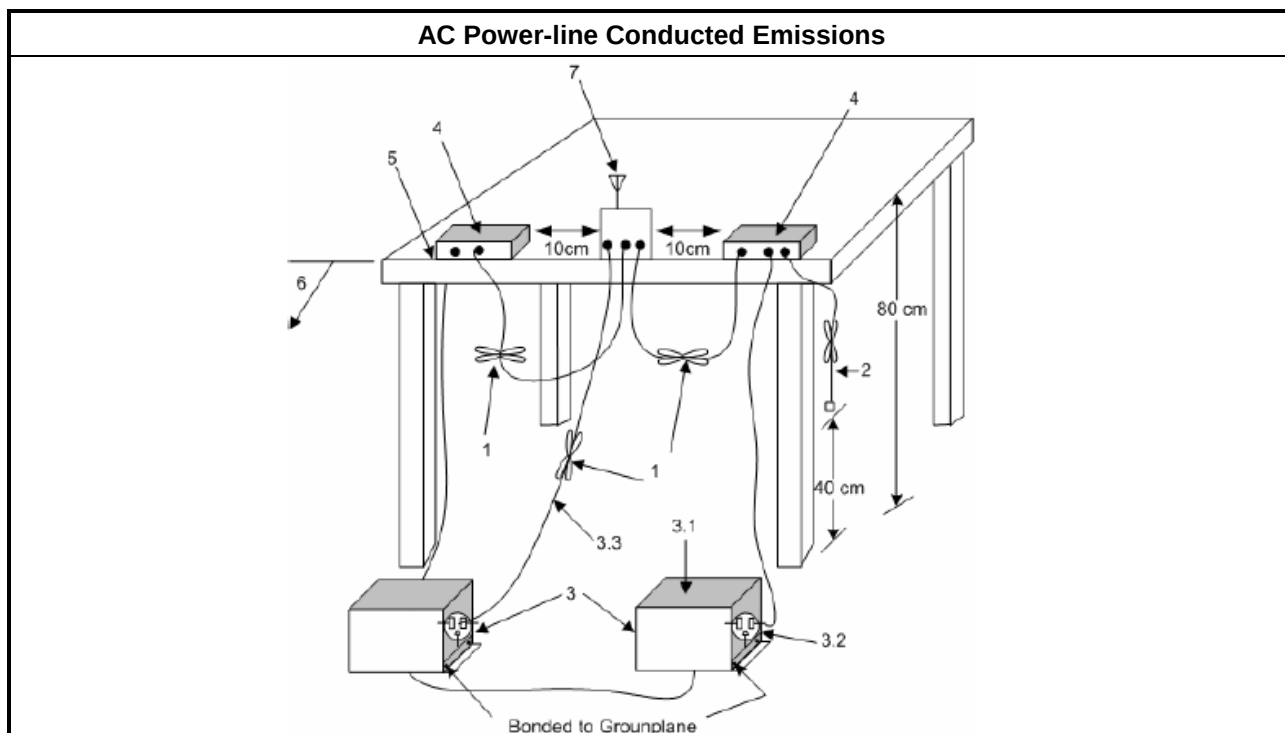
3.1.2 Measuring Instruments

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	

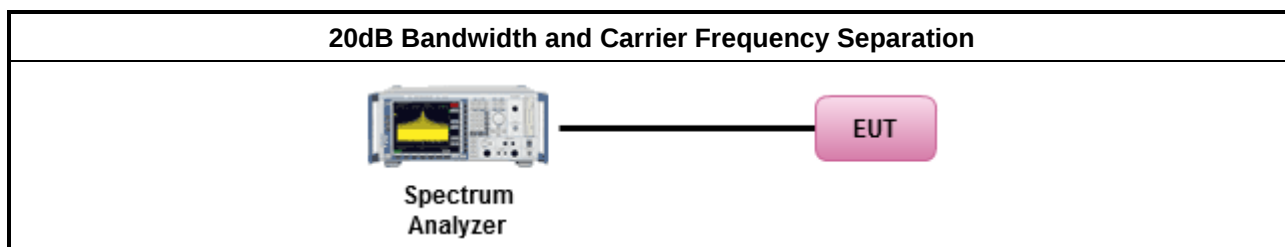
3.2.2 Measuring Instruments

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	

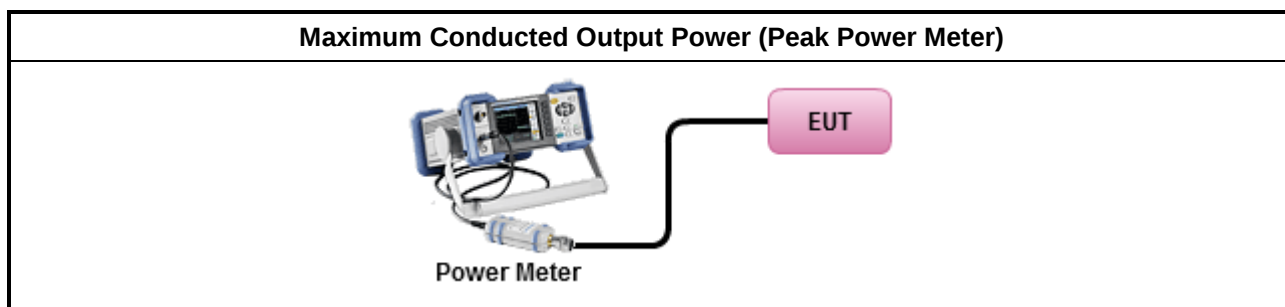
3.3.2 Measuring Instruments

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

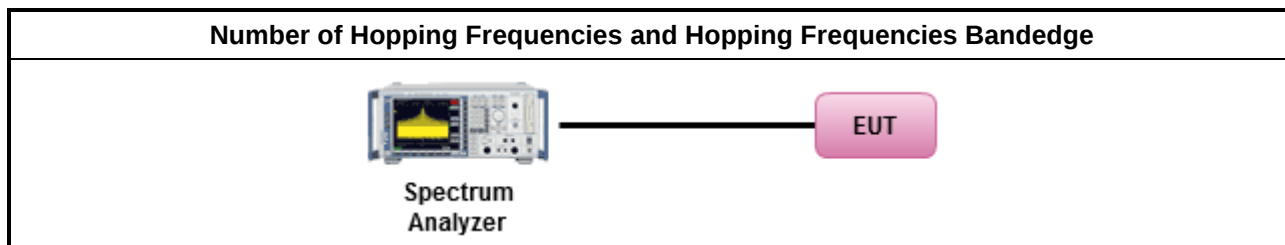
3.4.3 Measuring Instruments

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	

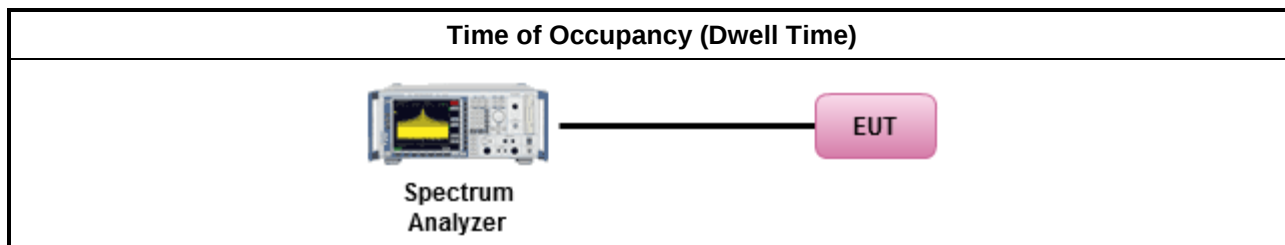
3.5.2 Measuring Instruments

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.	

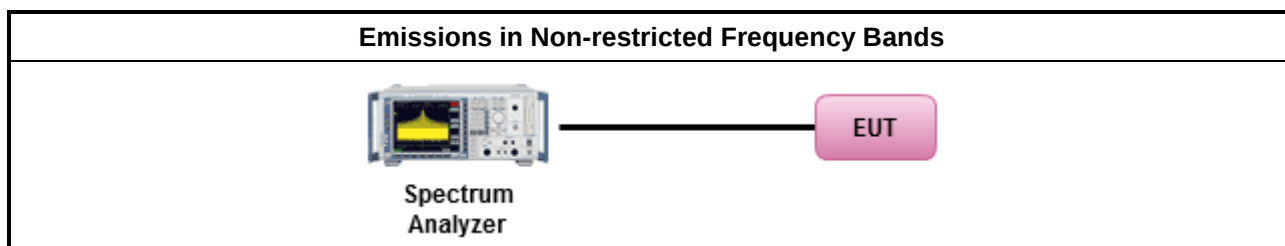
3.6.2 Measuring Instruments

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.

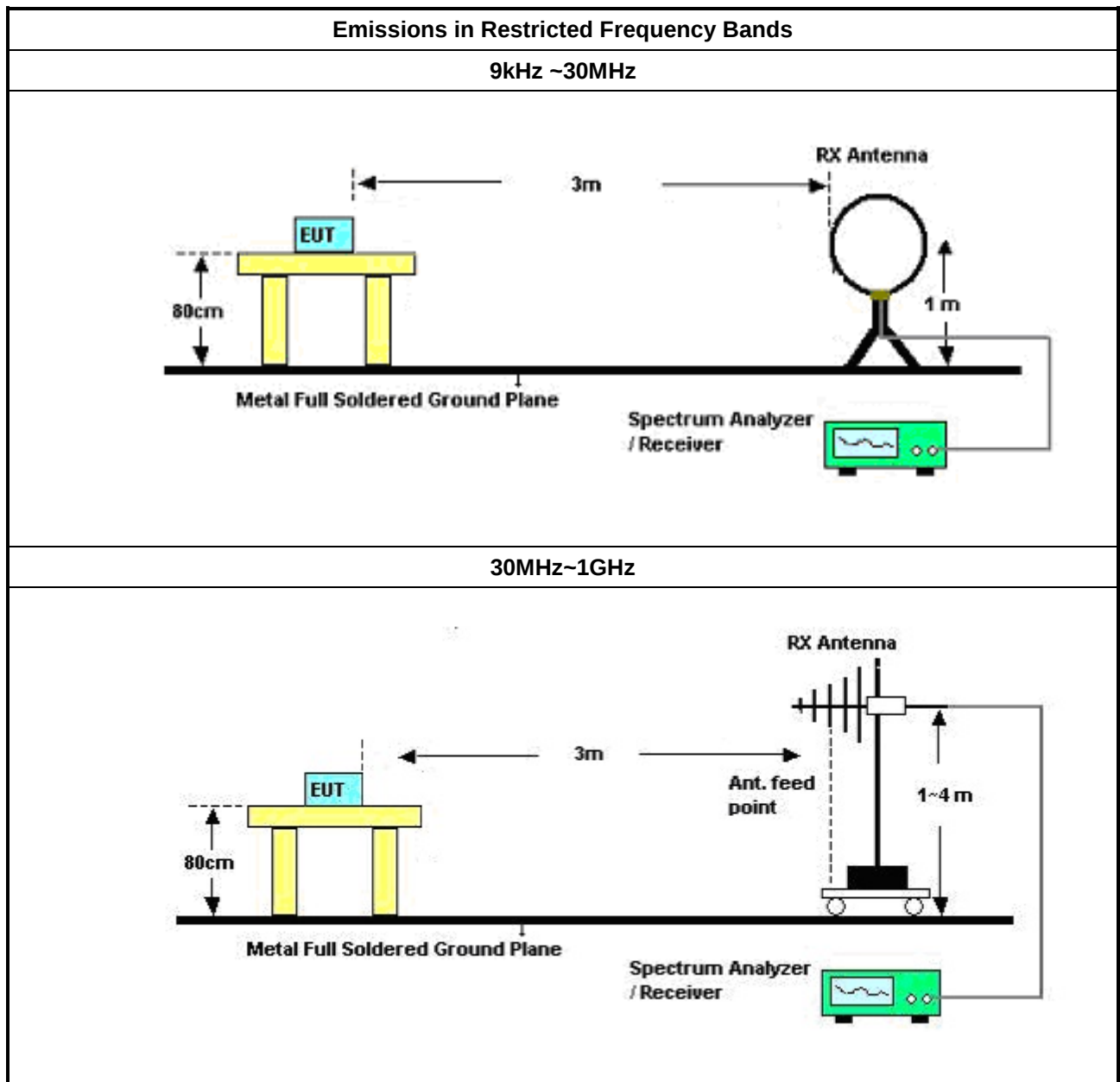
3.7.2 Measuring Instruments

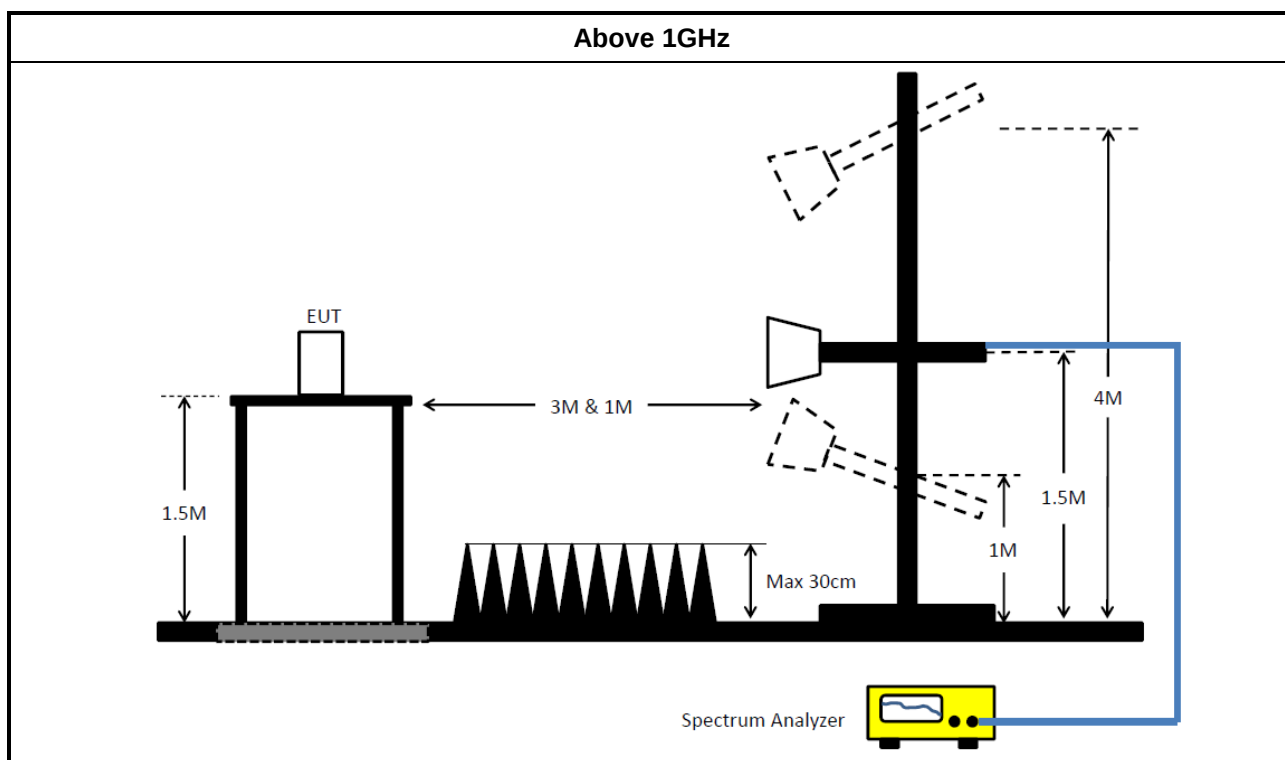
Refer a test equipment and calibration data table in this test report.

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 Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	19/Oct/2018	18/Oct/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	17/Oct/2018	16/Oct/2019
Amplifier	Agilent	8447D	2944A11149	30-1000MHz	02/Jul/2019	01/Jul/2020
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	23/Oct/2018	22/Oct/2019
Spectrum Analyzer	Rohde & Schwarz	FSP40	100593	9KHz - 40GHz	27/Dec/2018	26/Dec/2019
Signal Analyzer	KEYSIGHT	N9010A	SG56070103	10Hz ~ 40GHz	05/Mar/2019	04/Mar/2020
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	18/Jan/2019	17/Jan/2020
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	18/Jan/2019	17/Jan/2020
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz ~ 1GHz	08/Sep/2018	07/Sep/2019
EMI Test Receiver	R&S	ESR	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	15/Mar/2019	14/Mar/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz ~ 40GHz	22/Mar/2019	21/Mar/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz ~ 18GHz	03/Jun/2019	02/Jun/2020

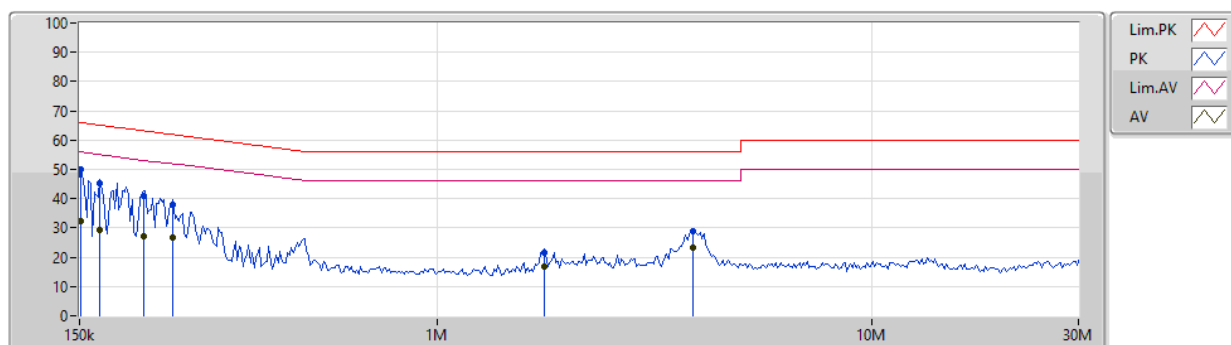
Instrument for Conducted Test

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
Power Sensor	Anritsu	MA2411B	1339407	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Power Meter	Anritsu	ML2495A	1517010	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.2m	HUBER	MY10711/4	RF Cable - 02	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.5m	HUBER	MY39470/4	RF Cable - 29	30MHz ~18G	10/Jan/2019	09/Jan/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Adapter Mode		

17/07/2019

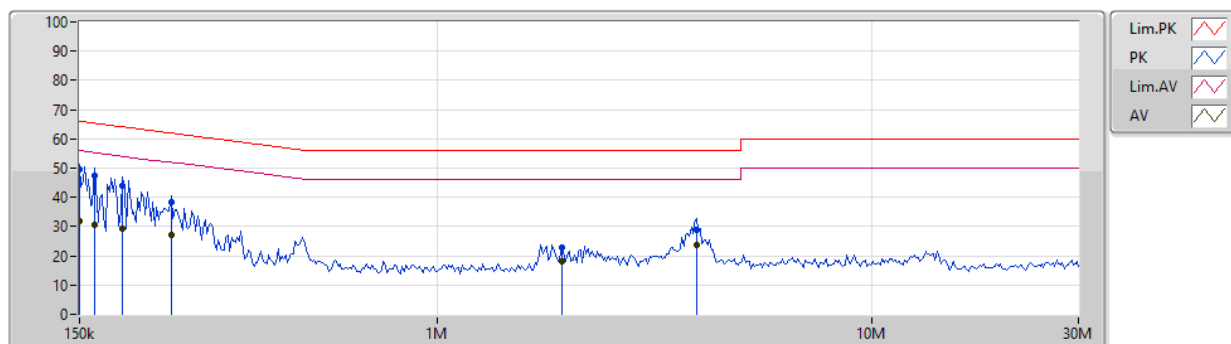


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	151.5k	49.84	65.92	-16.08	19.48	Neutral	"Worst"	30.36	9.60	0.01	9.87			
AV	151.5k	32.33	55.92	-23.59	19.48	Neutral	-	12.85	9.60	0.01	9.87			
QP	167.35k	45.24	65.08	-19.84	19.48	Neutral	-	25.76	9.60	0.01	9.87			
AV	167.35k	29.28	55.08	-25.80	19.48	Neutral	-	9.80	9.60	0.01	9.87			
QP	210.387k	41.12	63.19	-22.07	19.47	Neutral	-	21.65	9.59	0.01	9.87			
AV	210.387k	27.32	53.19	-25.87	19.47	Neutral	-	7.85	9.59	0.01	9.87			
QP	246.695k	37.82	61.87	-24.05	19.47	Neutral	-	18.35	9.59	0.01	9.87			
AV	246.695k	26.75	51.87	-25.12	19.47	Neutral	-	7.28	9.59	0.01	9.87			
QP	1.769M	21.54	56.00	-34.46	19.53	Neutral	-	2.01	9.61	0.03	9.89			
AV	1.769M	16.97	46.00	-29.03	19.53	Neutral	-	-2.56	9.61	0.03	9.89			
QP	3.883M	28.70	56.00	-27.30	19.55	Neutral	-	9.15	9.61	0.05	9.89			
AV	3.883M	23.34	46.00	-22.66	19.55	Neutral	-	3.79	9.61	0.05	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Adapter Mode		

17/07/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	150k	49.54	66.00	-16.46	19.48	Line	"Worst"	30.06	9.60	0.01	9.87			
AV	150k	31.89	56.00	-24.11	19.48	Line	-	12.41	9.60	0.01	9.87			
QP	162.429k	47.45	65.33	-17.88	19.48	Line	-	27.97	9.60	0.01	9.87			
AV	162.429k	30.53	55.33	-24.80	19.48	Line	-	11.05	9.60	0.01	9.87			
QP	188.574k	44.07	64.11	-20.04	19.48	Line	-	24.59	9.60	0.01	9.87			
AV	188.574k	29.27	54.11	-24.84	19.48	Line	-	9.79	9.60	0.01	9.87			
QP	244.252k	38.30	61.95	-23.65	19.48	Line	-	18.82	9.60	0.01	9.87			
AV	244.252k	27.10	51.95	-24.85	19.48	Line	-	7.62	9.60	0.01	9.87			
QP	1.935M	22.82	56.00	-33.18	19.54	Line	-	3.28	9.62	0.03	9.89			
AV	1.935M	18.06	46.00	-27.94	19.54	Line	-	-1.48	9.62	0.03	9.89			
QP	3.961M	28.97	56.00	-27.03	19.57	Line	-	9.40	9.63	0.05	9.89			
AV	3.961M	23.58	46.00	-22.42	19.57	Line	-	4.01	9.63	0.05	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)	921.25k	883.308k	883KF1D	920k	870.815k
BT-EDR(2Mbps)	1.404M	1.378M	1M38G1D	1.398M	1.374M
BT-EDR(3Mbps)	1.425M	1.374M	1M37G1D	1.404M	1.373M

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;

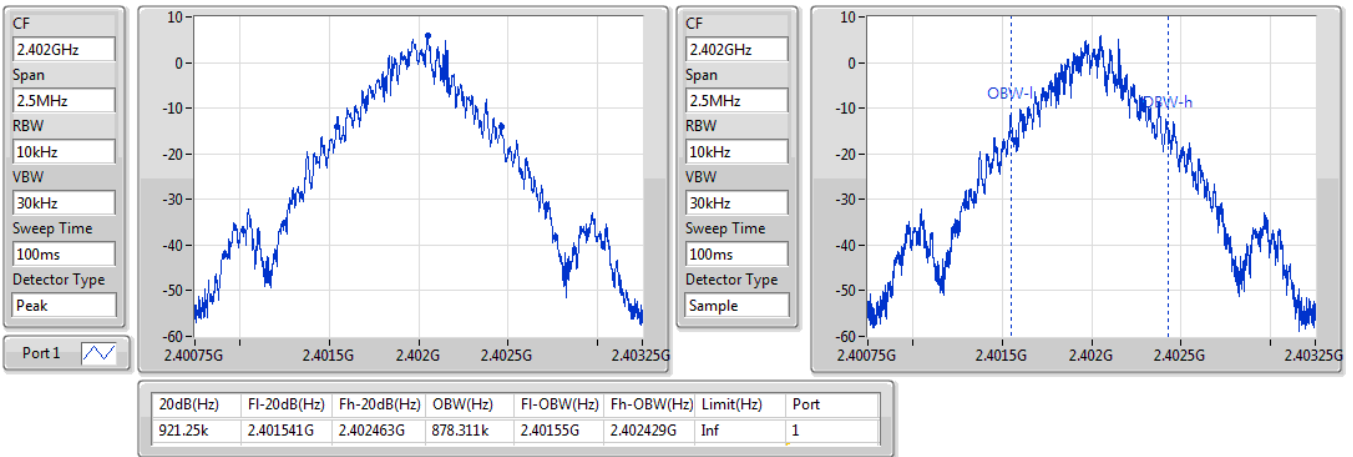
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	Inf	921.25k	878.311k
2441MHz_TnomVnom	Pass	Inf	921.25k	883.308k
2480MHz_TnomVnom	Pass	Inf	920k	870.815k
BT-EDR(2Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	Inf	1.404M	1.378M
2441MHz_TnomVnom	Pass	Inf	1.398M	1.376M
2480MHz_TnomVnom	Pass	Inf	1.4M	1.374M
BT-EDR(3Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	Inf	1.41M	1.373M
2441MHz_TnomVnom	Pass	Inf	1.425M	1.374M
2480MHz_TnomVnom	Pass	Inf	1.404M	1.374M

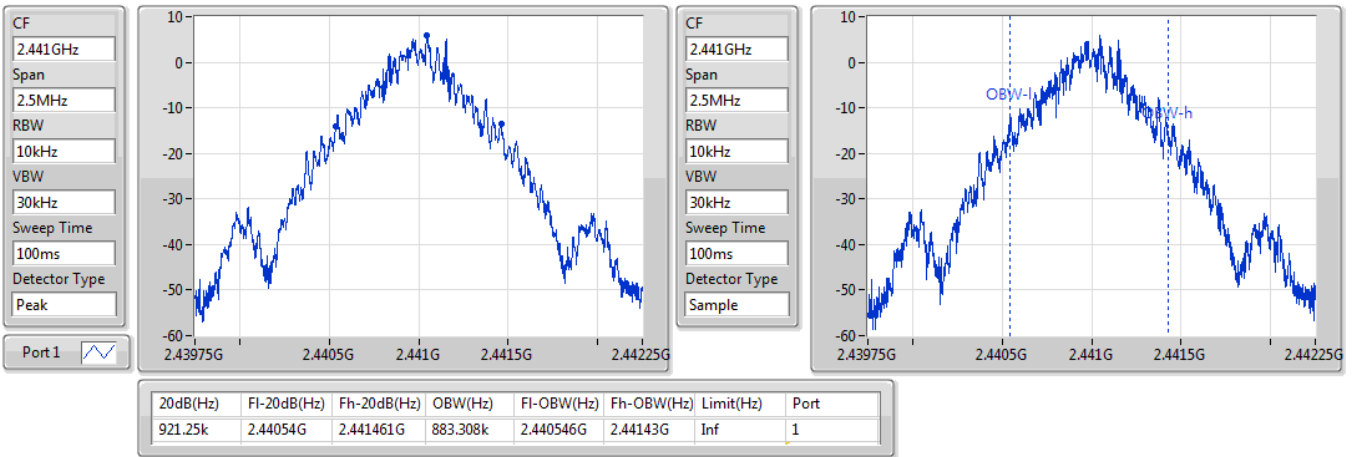
Port X-N dB = Port X 20dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

BT-BR(1Mbps)
2402MHz
EBW

16/07/2019

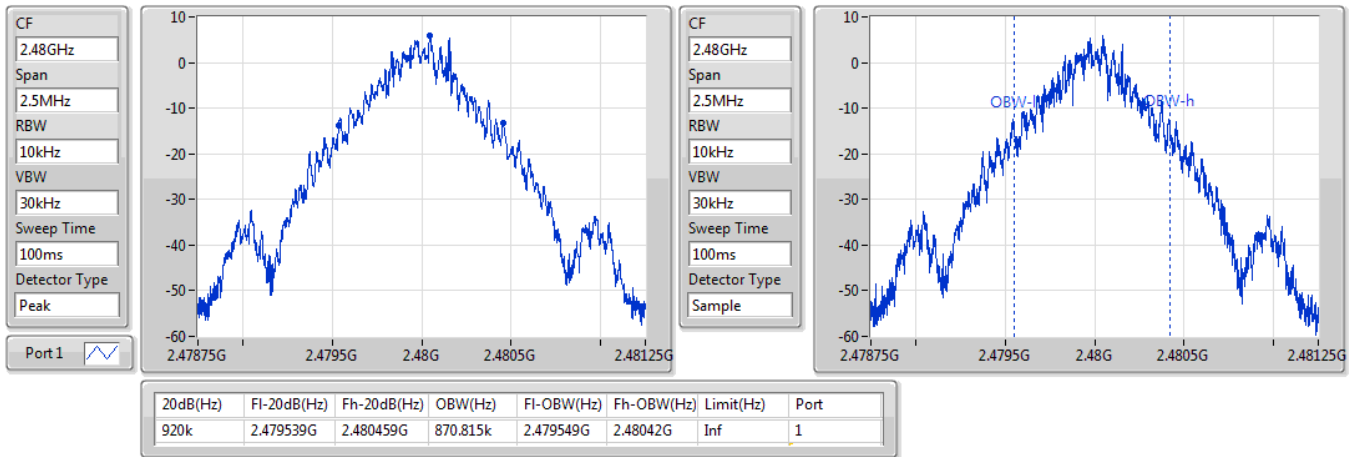

BT-BR(1Mbps)
2441MHz
EBW

16/07/2019

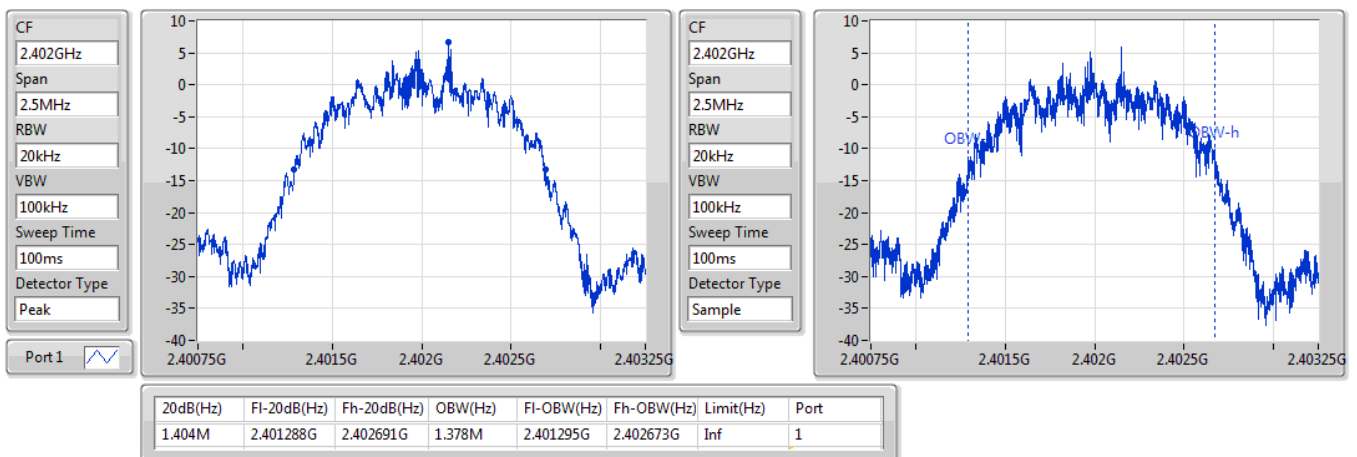


BT-BR(1Mbps)
EBW
2480MHz

16/07/2019

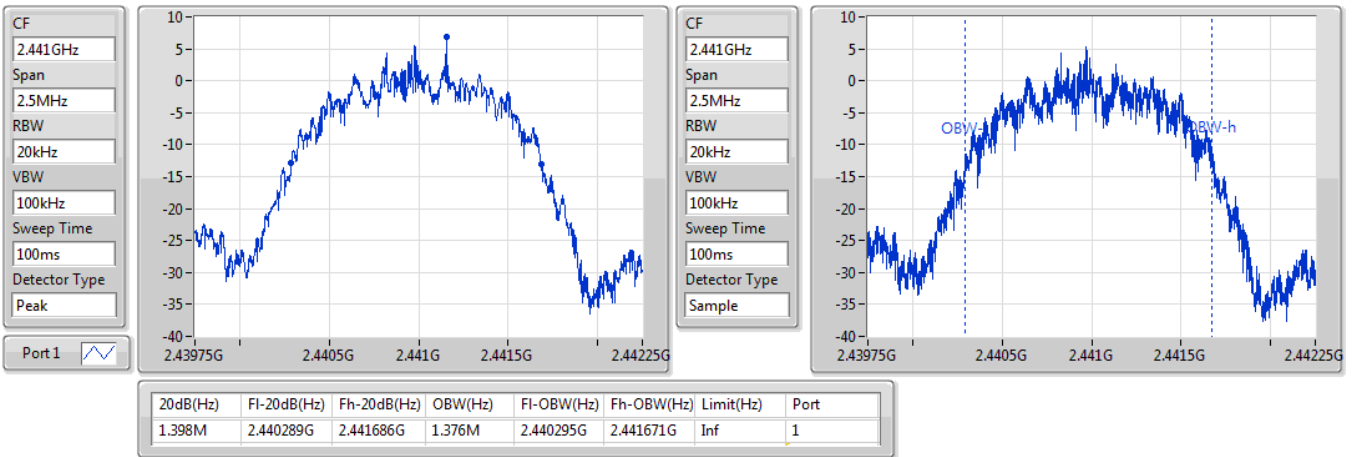

BT-EDR(2Mbps)
EBW
2402MHz

16/07/2019

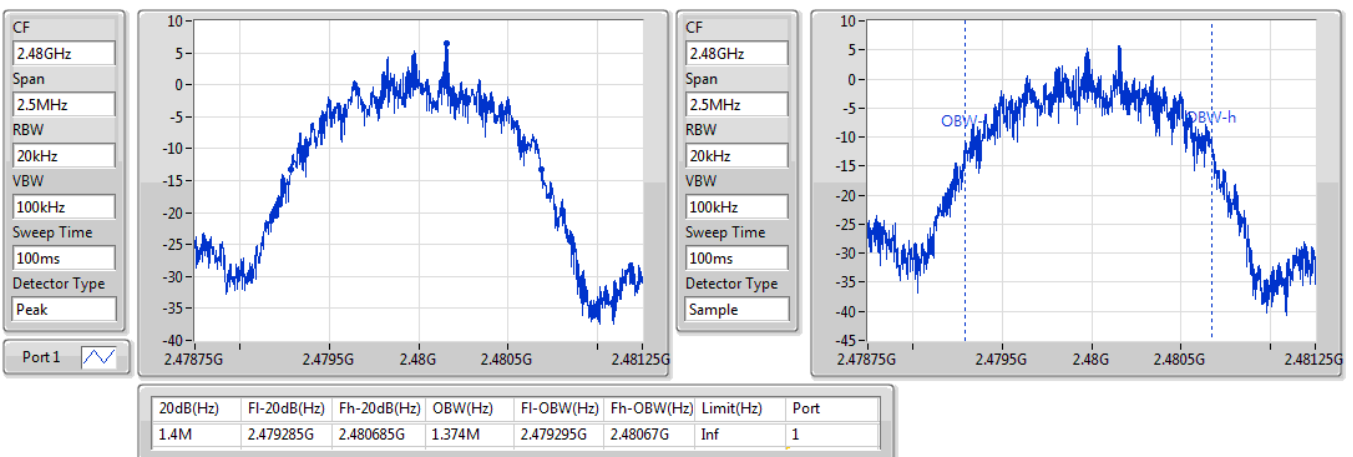


BT-EDR(2Mbps)
2441MHz
EBW

16/07/2019

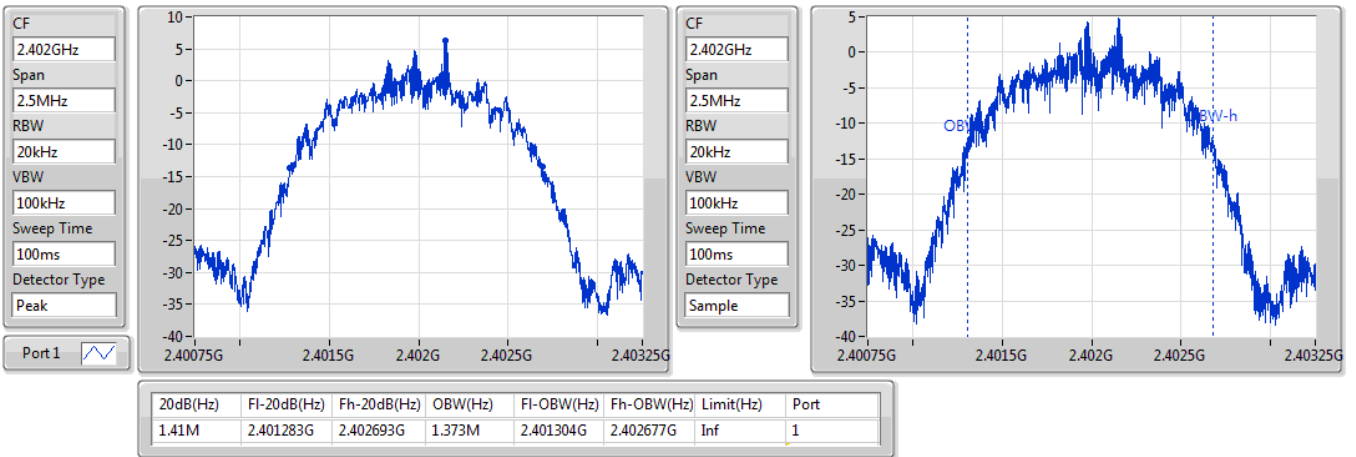

BT-EDR(2Mbps)
2480MHz
EBW

16/07/2019

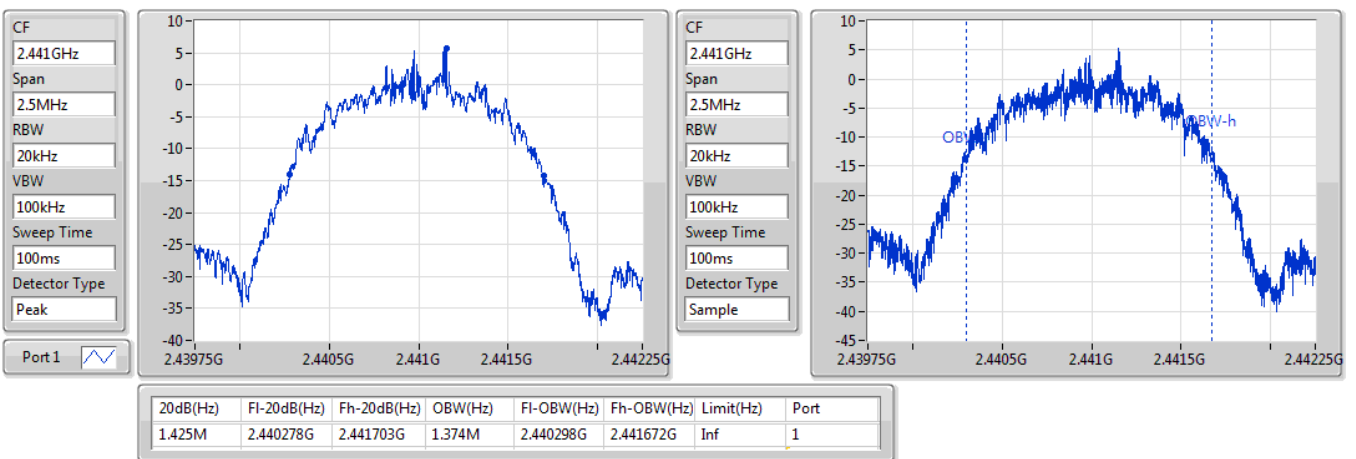


BT-EDR(3Mbps)
2402MHz
EBW

16/07/2019


BT-EDR(3Mbps)
2441MHz
EBW

16/07/2019

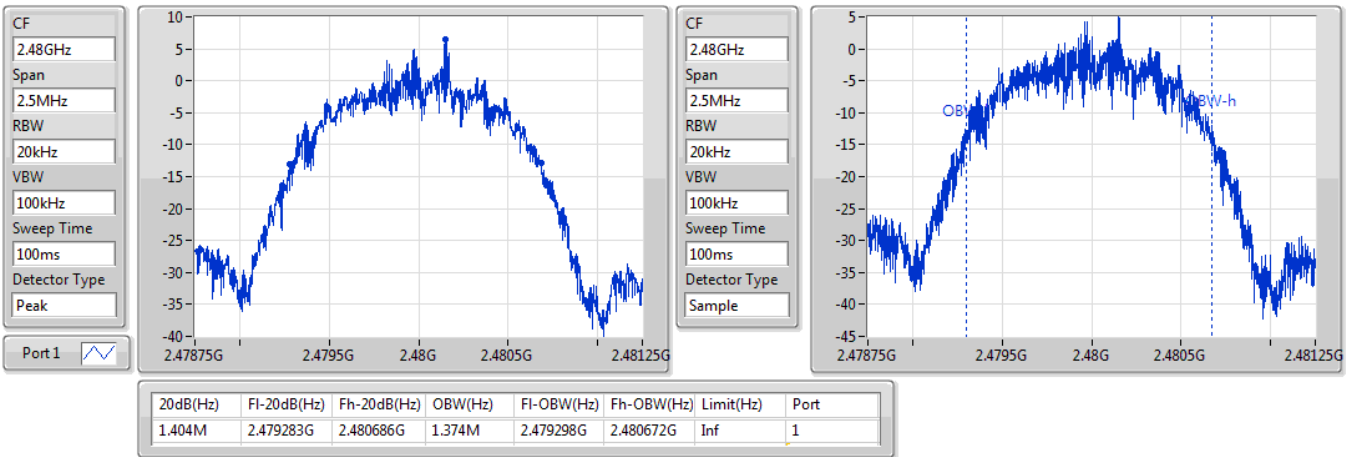


BT-EDR(3Mbps)

2480MHz

EBW

16/07/2019





Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.002M	996k
BT-EDR(2Mbps)	1.002M	996k
BT-EDR(3Mbps)	1.0005M	994.5k

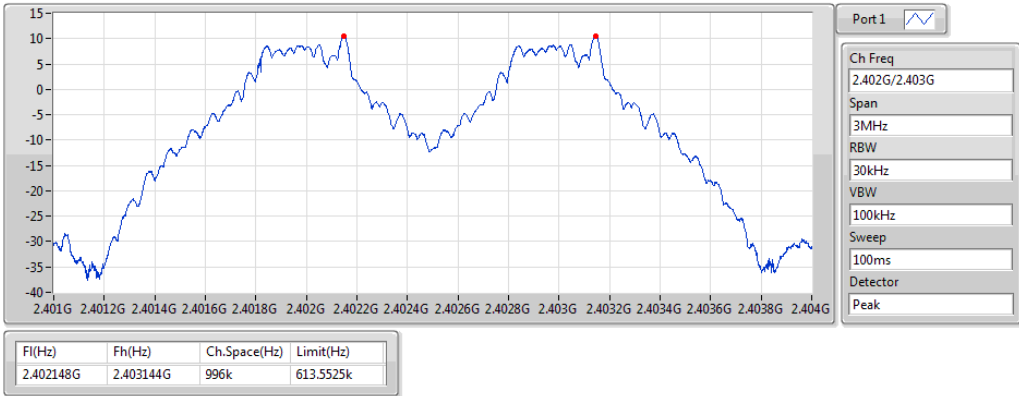
Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402148G	2.403144G	996k	613.5525k
2441MHz_TnomVnom	Pass	2.441151G	2.442151G	1.0005M	613.5525k
2480MHz_TnomVnom	Pass	2.479149G	2.480151G	1.002M	612.72k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402151G	2.403147G	996k	935.064k
2441MHz_TnomVnom	Pass	2.441151G	2.442153G	1.002M	931.068k
2480MHz_TnomVnom	Pass	2.479151G	2.480153G	1.002M	932.4k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402151G	2.403145G	994.5k	939.06k
2441MHz_TnomVnom	Pass	2.441151G	2.442151G	1.0005M	949.05k
2480MHz_TnomVnom	Pass	2.479152G	2.480153G	1.0005M	935.064k

BT-BR(1Mbps)

Channel Separation

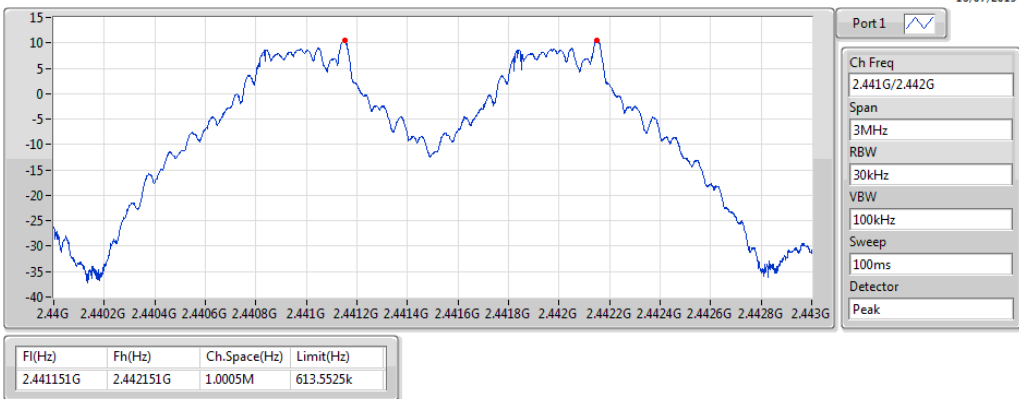
2.402G/2.403GHz



BT-BR(1Mbps)

Channel Separation

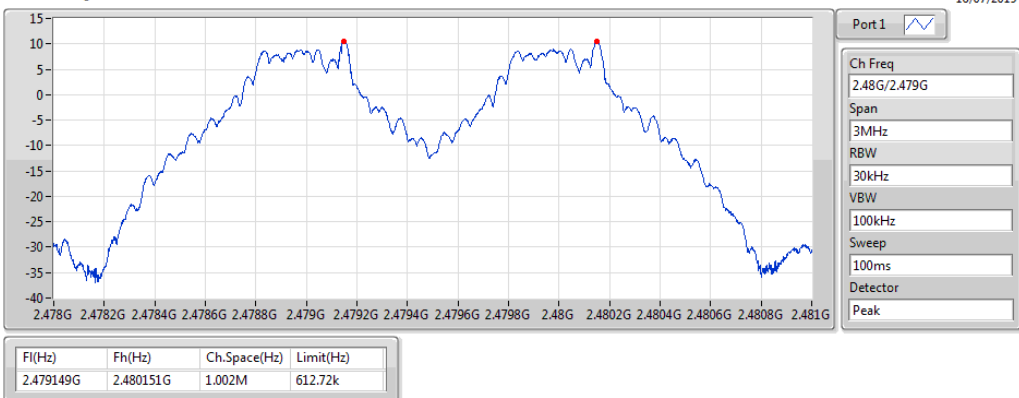
2.441G/2.442GHz



BT-BR(1Mbps)

Channel Separation

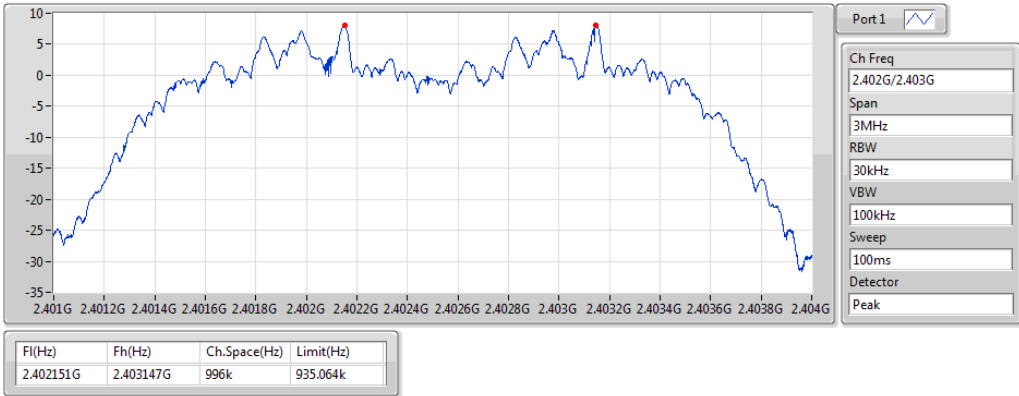
2.48G/2.479GHz



BT-EDR(2Mbps)

Channel Separation

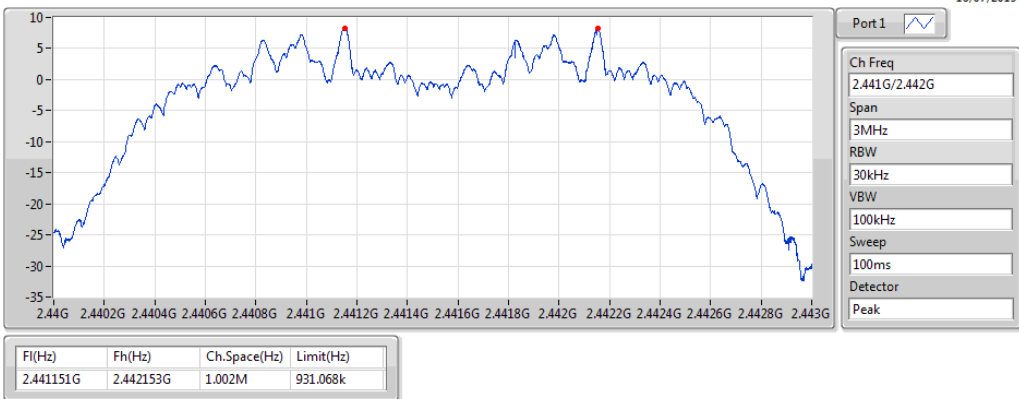
2.402G/2.403GHz



BT-EDR(2Mbps)

Channel Separation

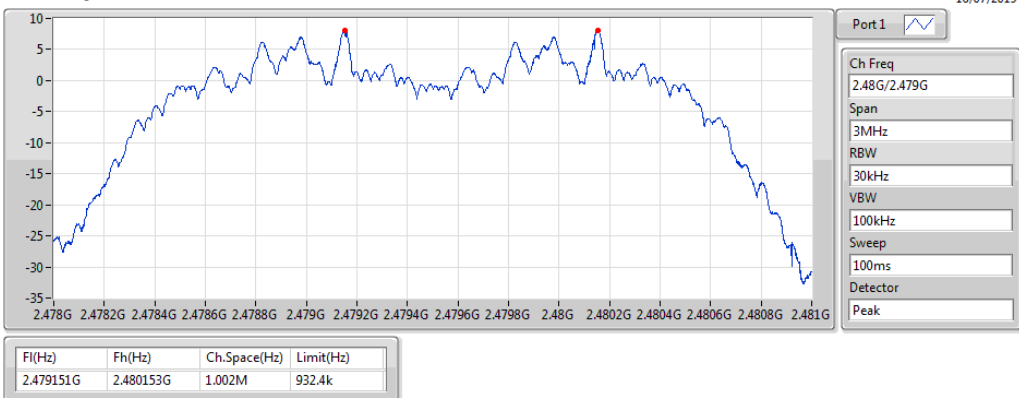
2.441G/2.442GHz



BT-EDR(2Mbps)

Channel Separation

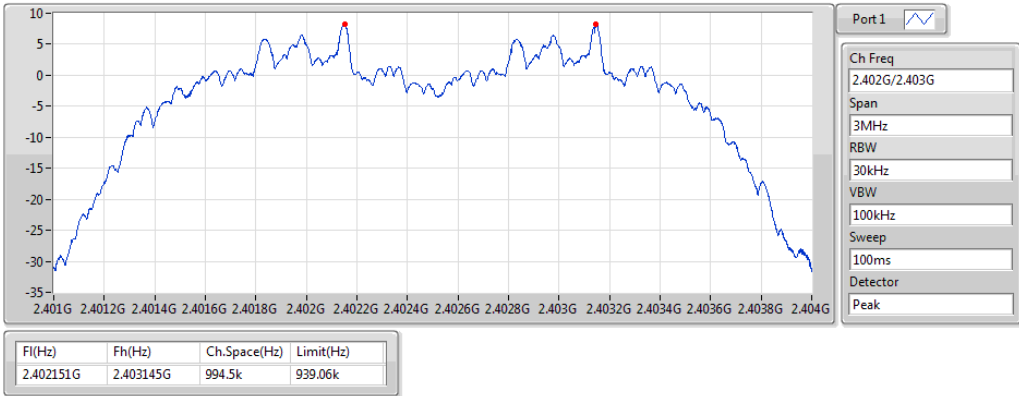
2.48G/2.479GHz



BT-EDR(3Mbps)

Channel Separation

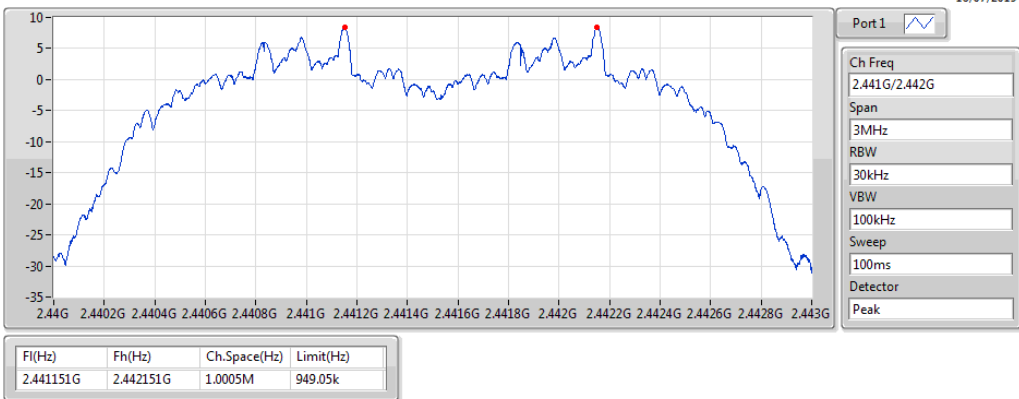
2.402G/2.403GHz



BT-EDR(3Mbps)

Channel Separation

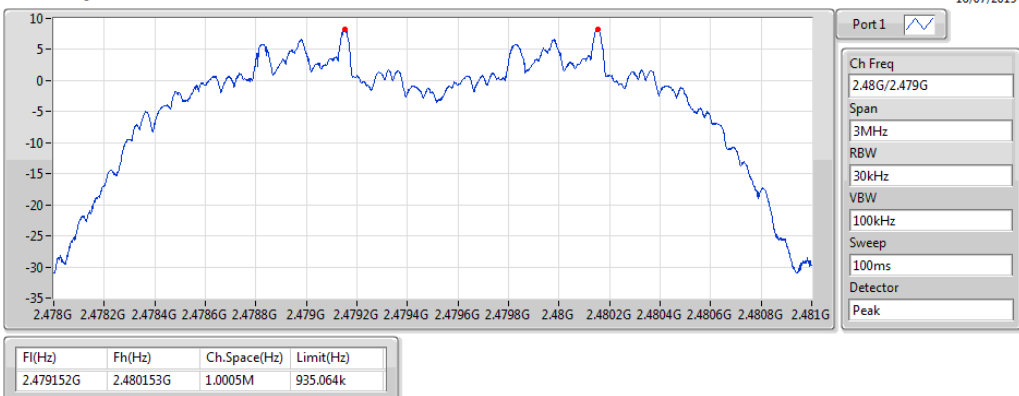
2.441G/2.442GHz



BT-EDR(3Mbps)

Channel Separation

2.48G/2.479GHz





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	11.81	0.01517
BT-EDR(2Mbps)	11.36	0.01368
BT-EDR(3Mbps)	11.15	0.01303

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	1.83	11.68	21.00
2441MHz_TnomVnom	Pass	1.83	11.76	21.00
2480MHz_TnomVnom	Pass	1.83	11.81	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	1.83	11.24	21.00
2441MHz_TnomVnom	Pass	1.83	11.35	21.00
2480MHz_TnomVnom	Pass	1.83	11.36	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	1.83	10.89	21.00
2441MHz_TnomVnom	Pass	1.83	11.11	21.00
2480MHz_TnomVnom	Pass	1.83	11.15	21.00

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



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	11.62	0.01452
BT-EDR(2Mbps)	9.77	0.00948
BT-EDR(3Mbps)	9.32	0.00855

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	1.83	11.47	21.00
2441MHz_TnomVnom	Pass	1.83	11.56	21.00
2480MHz_TnomVnom	Pass	1.83	11.62	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	1.83	9.75	21.00
2441MHz_TnomVnom	Pass	1.83	9.77	21.00
2480MHz_TnomVnom	Pass	1.83	9.77	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	1.83	9.05	21.00
2441MHz_TnomVnom	Pass	1.83	9.32	21.00
2480MHz_TnomVnom	Pass	1.83	9.26	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

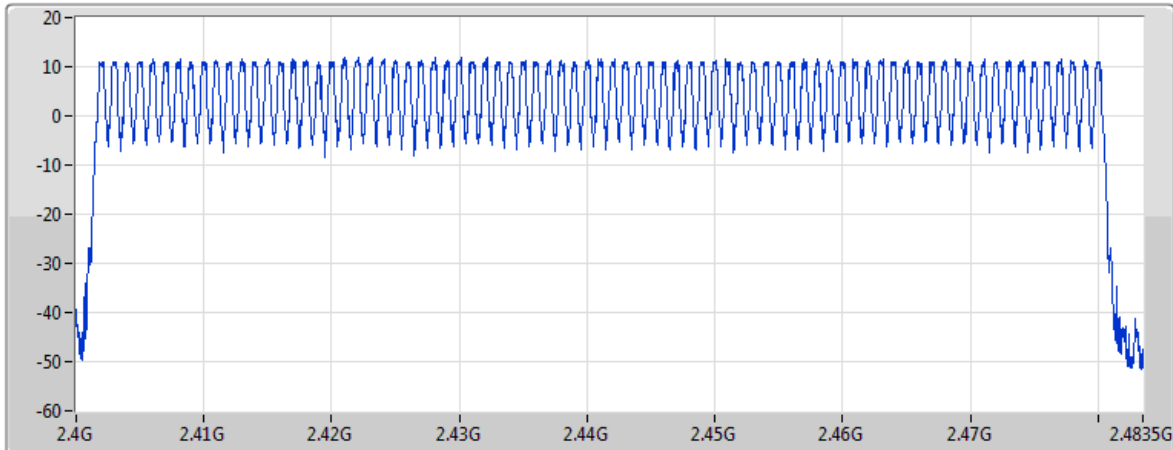
Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2441MHz_TnomVnom	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2441MHz_TnomVnom	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2441MHz_TnomVnom	Pass	79	15

BT-BR(1Mbps)

2441MHz

Hopping Ch

16/07/2019



Port 1 

Hopping No
79

Span
83.5MHz

RBW
100kHz

VBW
300kHz

Sweep
200ms

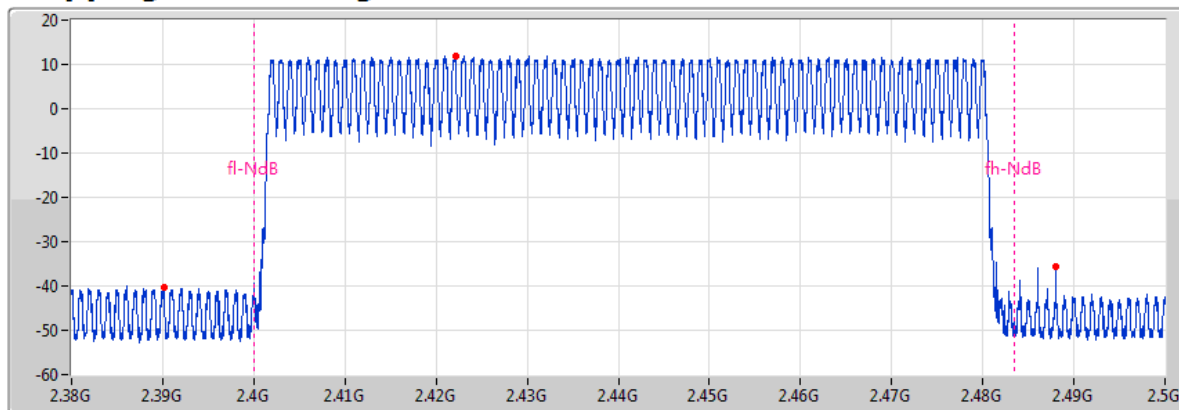
Detector
Peak

BT-BR(1Mbps)

2441MHz

Hopping Ch Bandedge (Non-restricted Band)

16/07/2019



Port 1 

Span
120MHz

RBW
100kHz

VBW
300kHz

Sweep
200ms

Detector
Peak

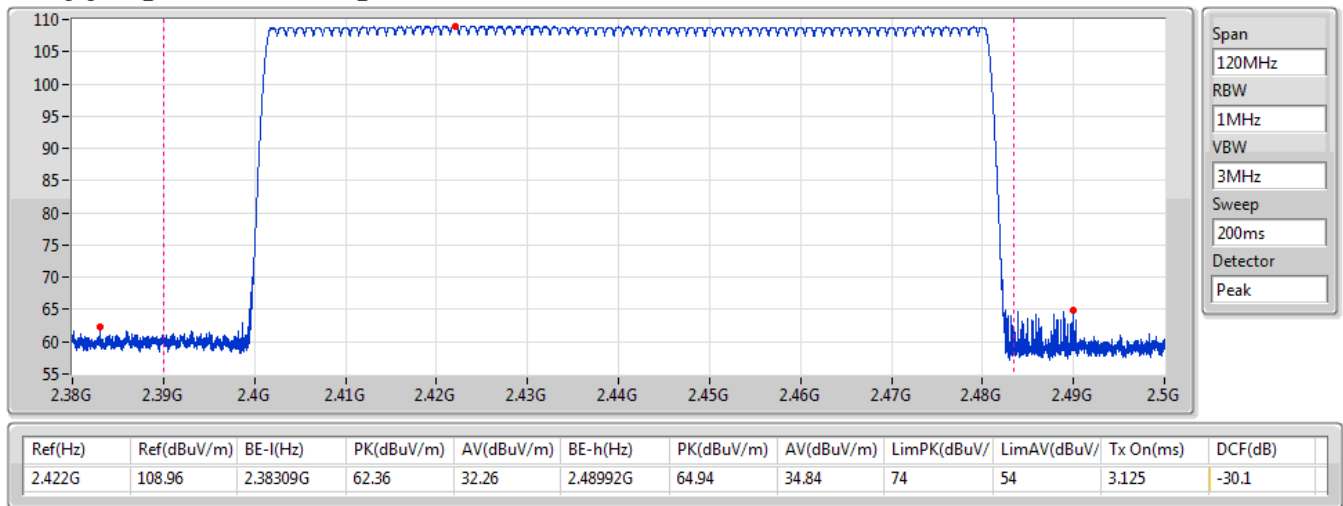
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-8.19	2.42215G	11.81	2.390155G	-40.34	2.488015G	-35.6

BT-BR(1Mbps)

2441MHz

Hopping Ch Bandedge (Restricted Band)

16/07/2019

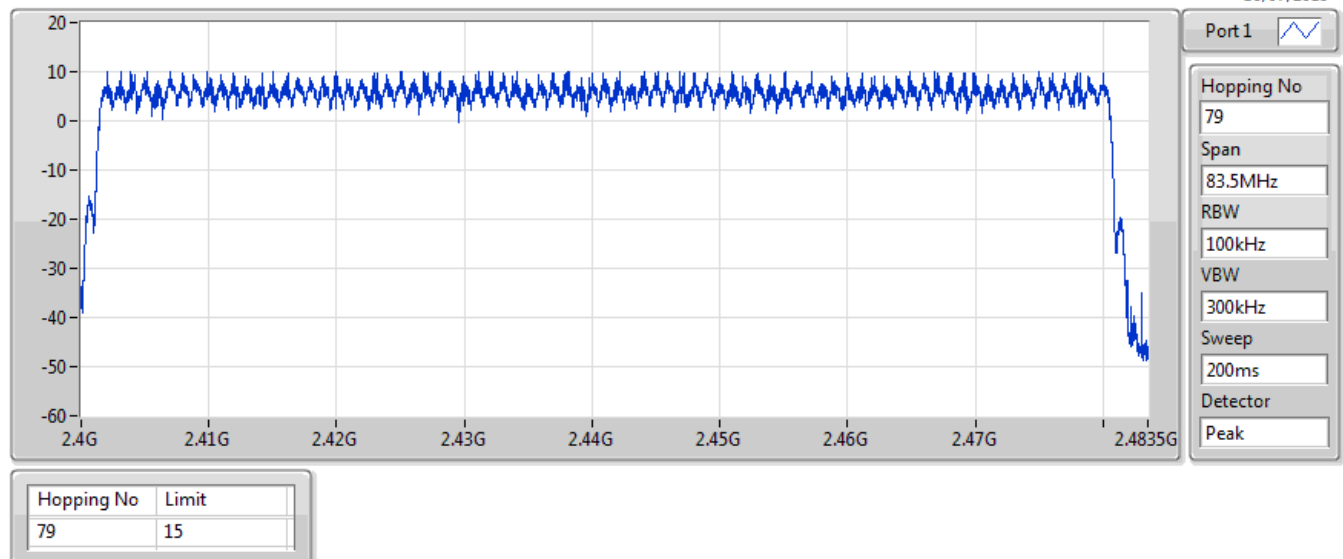


BT-EDR(2Mbps)

2441MHz

Hopping Ch

16/07/2019

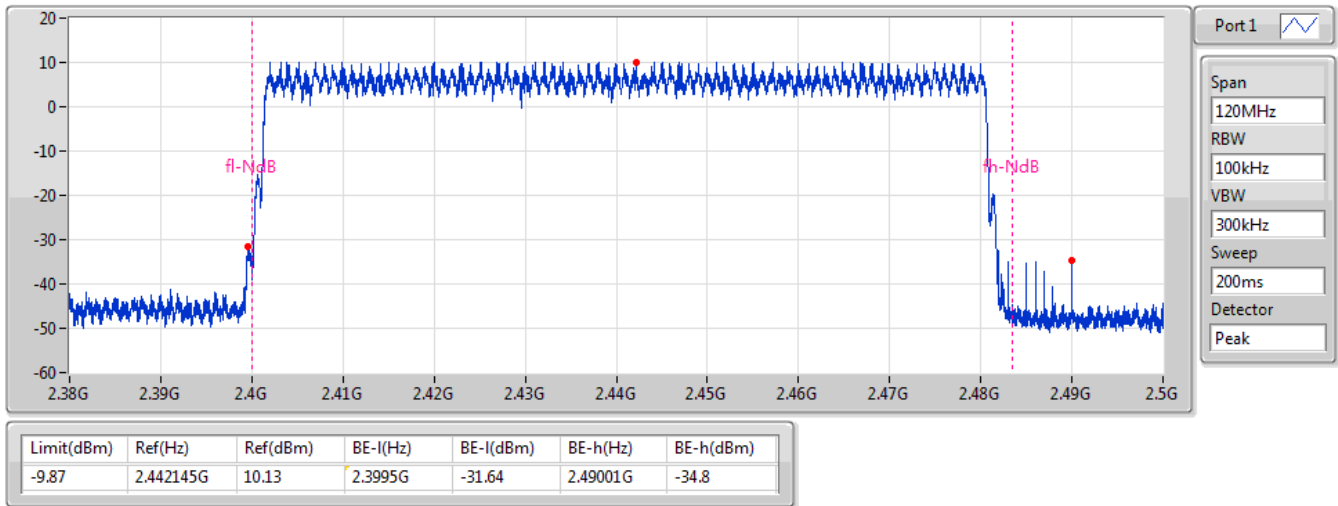


BT-EDR(2Mbps)

2441MHz

Hopping Ch Bandedge (Non-restricted Band)

16/07/2019

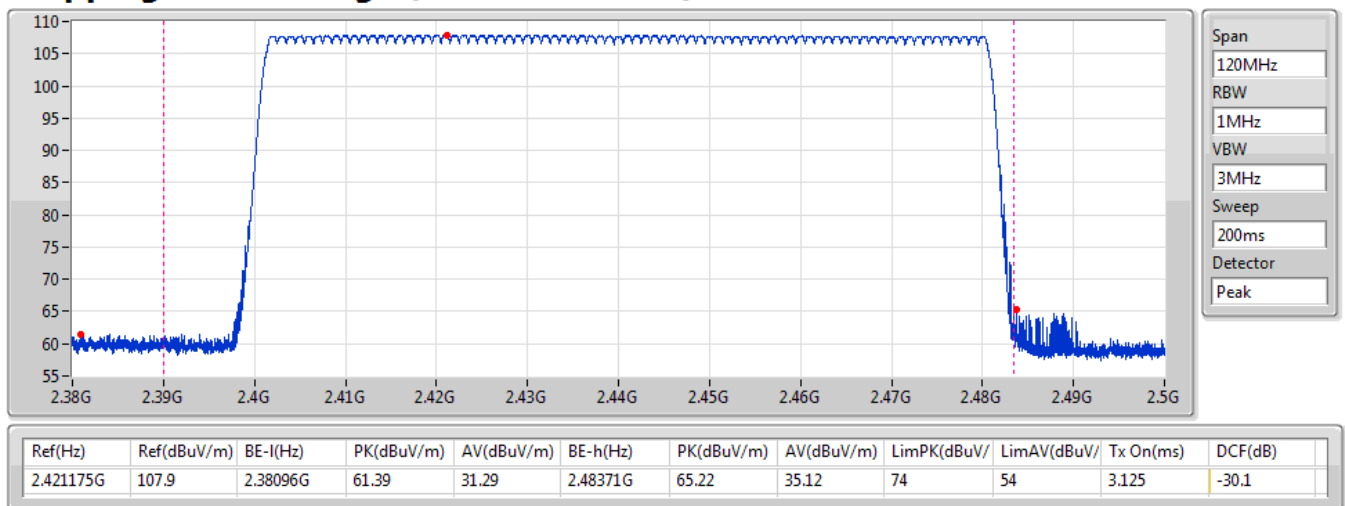


BT-EDR(2Mbps)

2441MHz

Hopping Ch Bandedge (Restricted Band)

16/07/2019

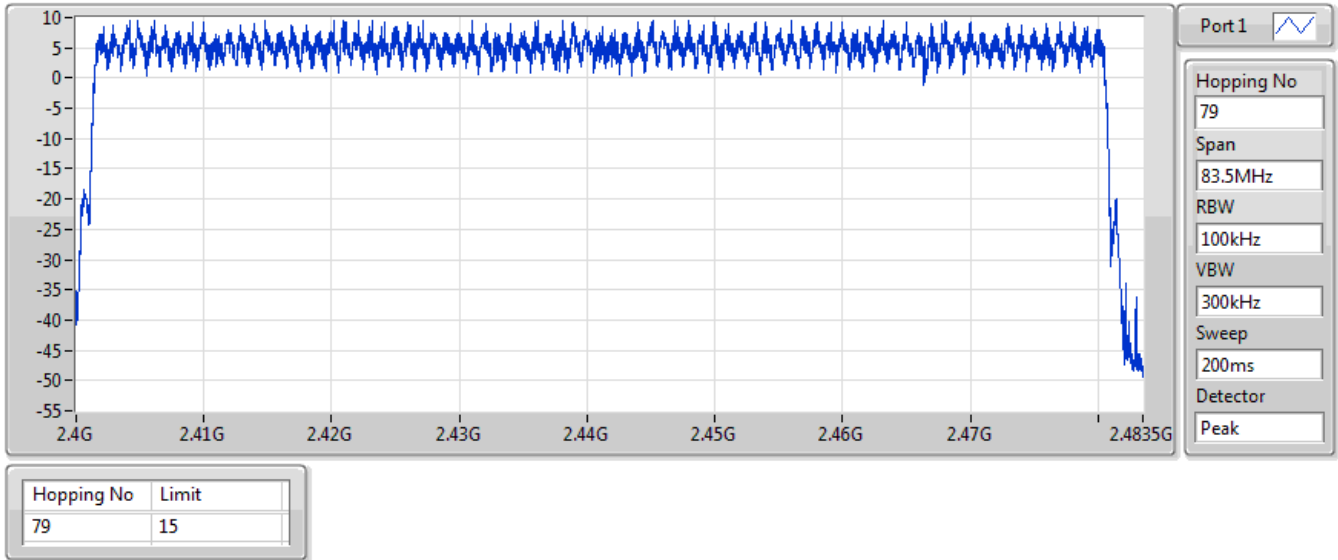


BT-EDR(3Mbps)

Hopping Ch

2441MHz

16/07/2019

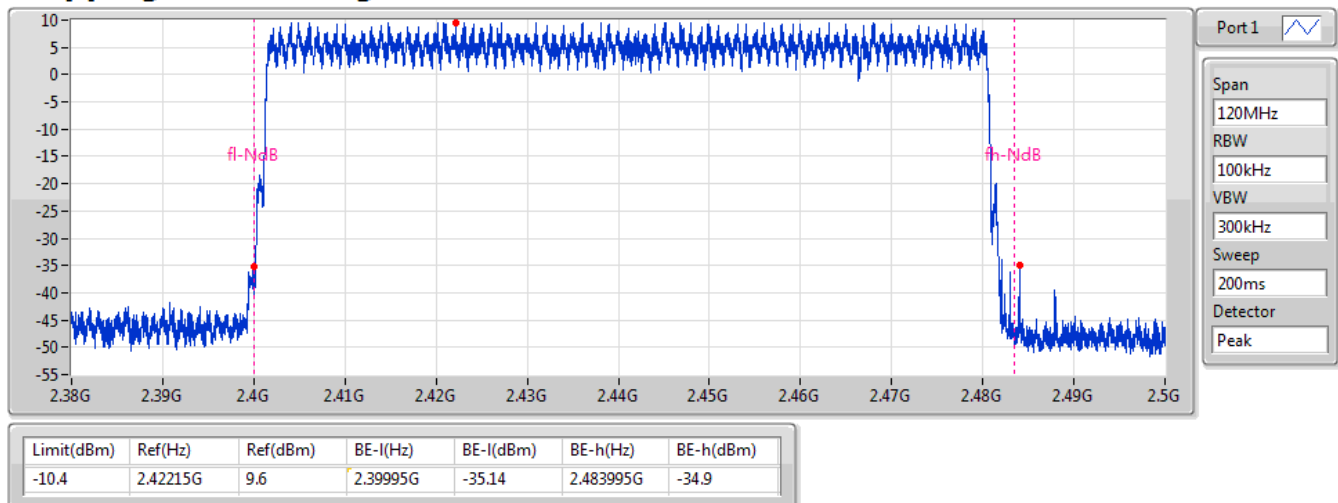


BT-EDR(3Mbps)

2441MHz

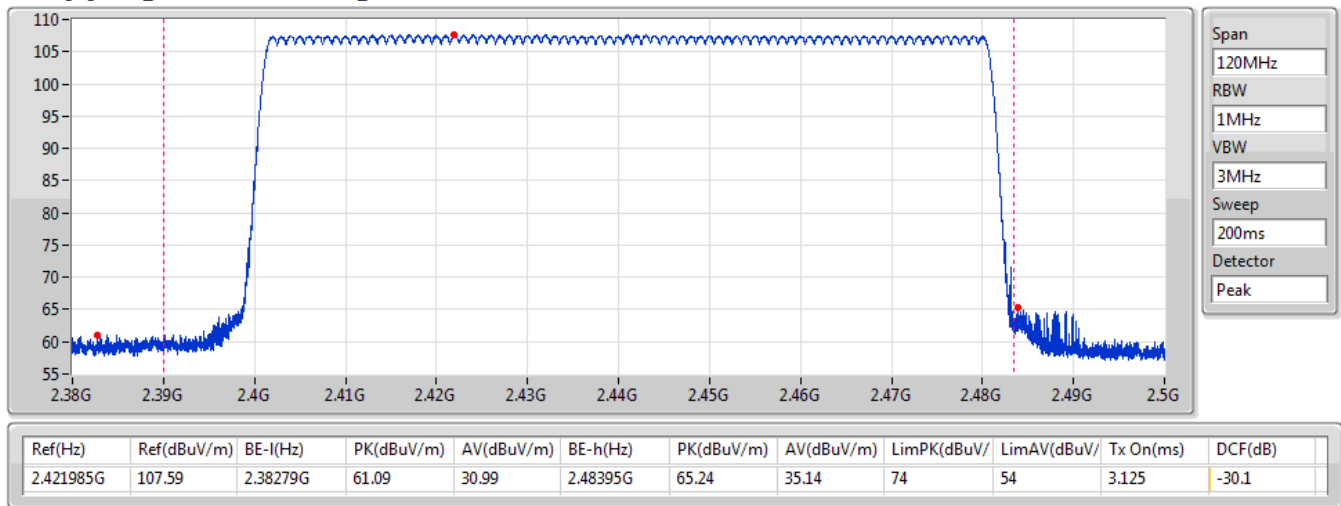
Hopping Ch Bandedge (Non-restricted Band)

16/07/2019



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

16/07/2019





Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	307.8608m
BT-EDR(2Mbps)	308.5004m
BT-EDR(3Mbps)	308.7136m

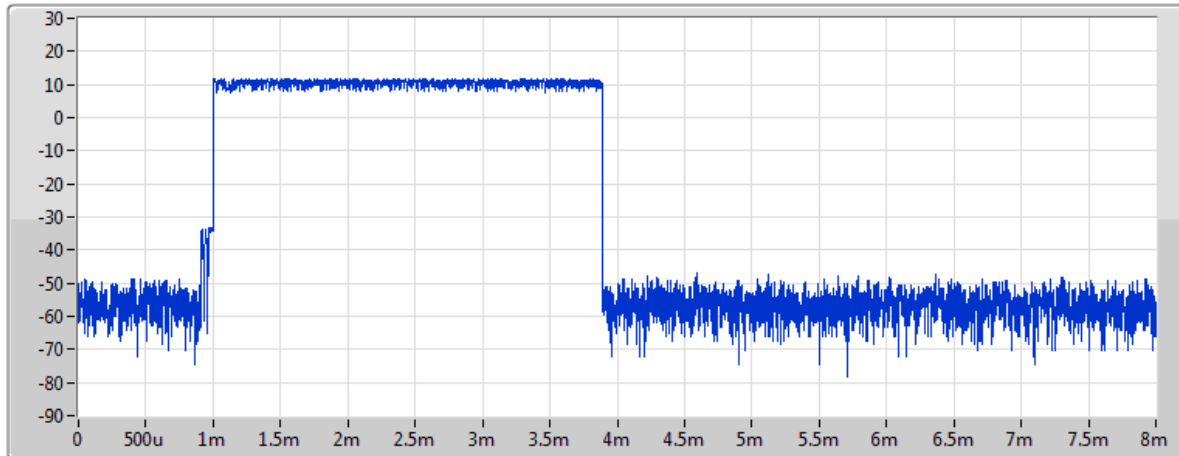
Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2441MHz_TnomVnom	Pass	31.6	307.8608m	400m	2.888m
BT-EDR(2Mbps)	-	-	-	-	-
2441MHz_TnomVnom	Pass	31.6	308.5004m	400m	2.894m
BT-EDR(3Mbps)	-	-	-	-	-
2441MHz_TnomVnom	Pass	31.6	308.7136m	400m	2.896m

BT-BR(1Mbps)

2441MHz

16/07/2019



Port1

Ch Freq

2.441GHz

RBW

300kHz

VBW

1MHz

Sweep Time

8ms

TX Time

2.888ms

non AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	307.8608m	400m	2.888m

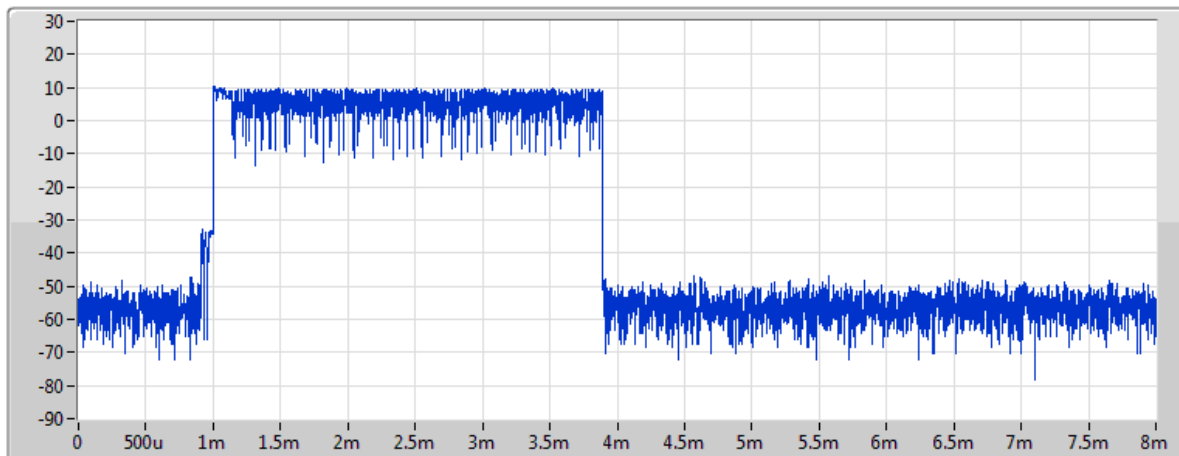
AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
0	153.9304m	400m	2.888m

BT-EDR(2Mbps)

2441MHz

16/07/2019



Port1

Ch Freq

2.441GHz

RBW

300kHz

VBW

1MHz

Sweep Time

8ms

TX Time

2.894ms

non AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.5004m	400m	2.894m

AFH Mode

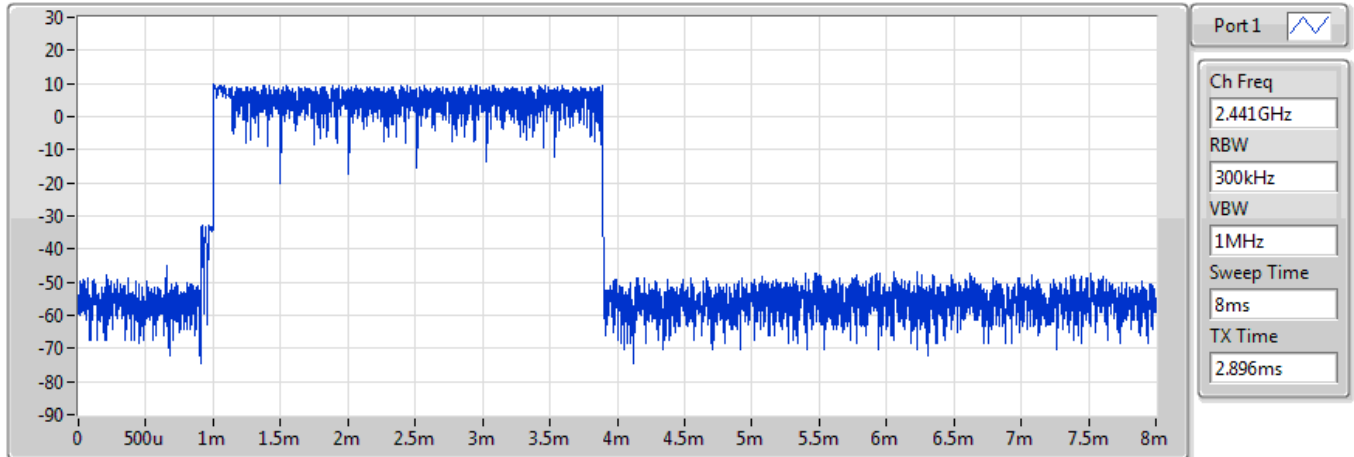
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
0	154.2502m	400m	2.894m

BT-EDR(3Mbps)

2441MHz

16/07/2019

Dwell



non AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.7136m	400m	2.896m

AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
0	154.3568m	400m	2.896m

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	2.40213G	11.35	-8.65	2.17748G	-51.22	2.39999G	-32.44	2.48385G	-49.08	24.54408G	-34.72	1
BT-EDR(2Mbps)	Pass	2.402G	9.80	-10.20	2.39504G	-50.60	2.39951G	-31.84	2.48353G	-48.84	24.48498G	-34.51	1
BT-EDR(3Mbps)	Pass	2.40192G	8.31	-11.69	2.398G	-47.36	2.39995G	-33.78	2.48512G	-49.53	23.12848G	-34.86	1

Result

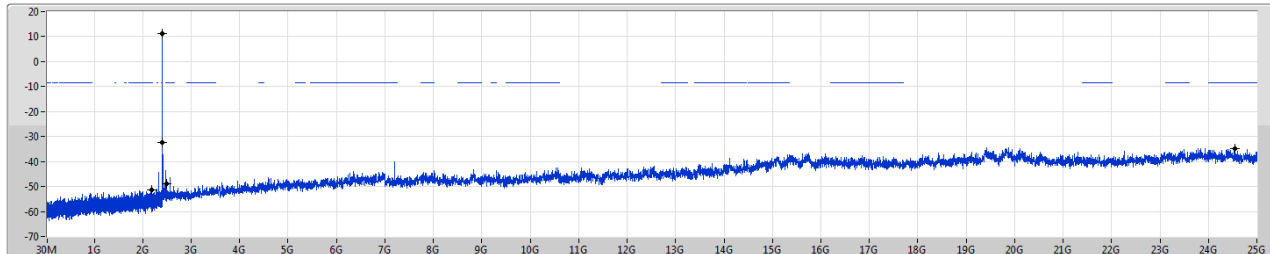
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.40213G	11.35	-8.65	2.17748G	-51.22	2.39999G	-32.44	2.48385G	-49.08	24.54408G	-34.72	1
2441MHz_TnomVnom	Pass	2.44083G	11.69	-8.31	2.08306G	-51.38	2.39951G	-50.34	2.48392G	-49.58	24.5075G	-34.95	1
2480MHz_TnomVnom	Pass	2.47983G	11.25	-8.75	2.12894G	-51.50	2.39996G	-41.53	2.4838G	-47.93	24.08535G	-33.74	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402G	9.80	-10.20	2.39504G	-50.60	2.39951G	-31.84	2.48353G	-48.84	24.48498G	-34.51	1
2441MHz_TnomVnom	Pass	2.44083G	10.02	-9.98	2.02297G	-51.61	2.39857G	-49.47	2.48438G	-49.61	24.07691G	-35.20	1
2480MHz_TnomVnom	Pass	2.47987G	9.71	-10.29	2.30506G	-51.36	2.39999G	-42.93	2.48361G	-43.58	24.17541G	-34.32	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.40192G	8.31	-11.69	2.398G	-47.36	2.39995G	-33.78	2.48512G	-49.53	23.12848G	-34.86	1
2441MHz_TnomVnom	Pass	2.441G	9.43	-10.57	2.1387G	-51.35	2.39945G	-49.81	2.48521G	-49.34	24.57785G	-34.99	1
2480MHz_TnomVnom	Pass	2.47987G	9.38	-10.62	2.10881G	-51.11	2.39998G	-42.78	2.48413G	-43.79	23.13411G	-35.29	1

BT-BR(1Mbps)

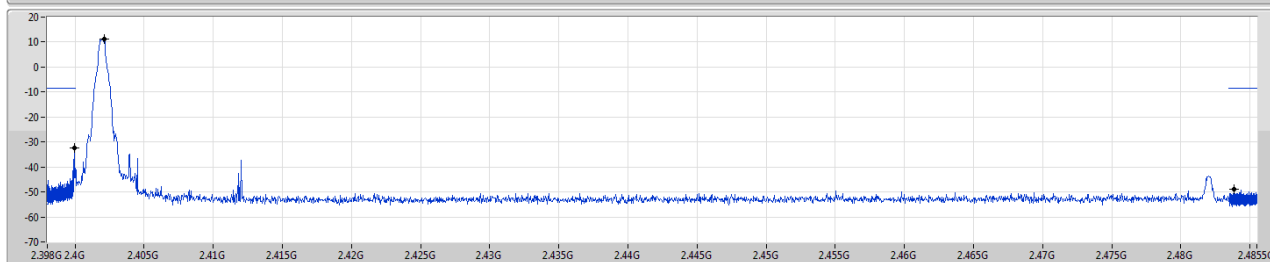
CSE NdB

2402MHz

16/07/2019



Port 1



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

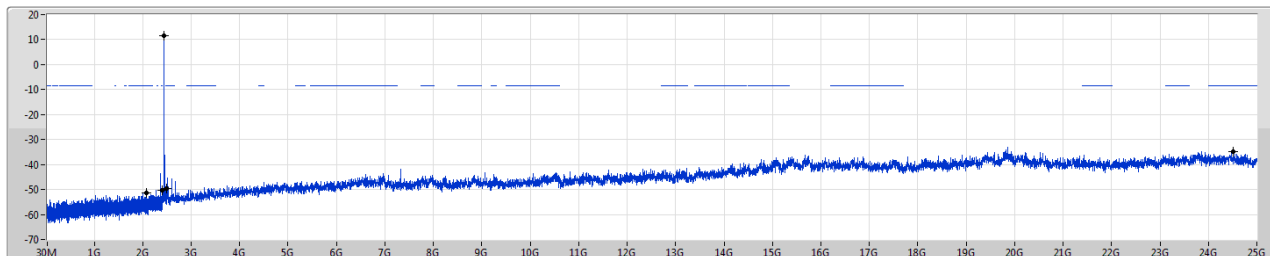
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
240213G	11.35	-8.65	241748G	-51.22	239999G	-32.44	248385G	-49.08	2454408G	-34.72	1

BT-BR(1Mbps)

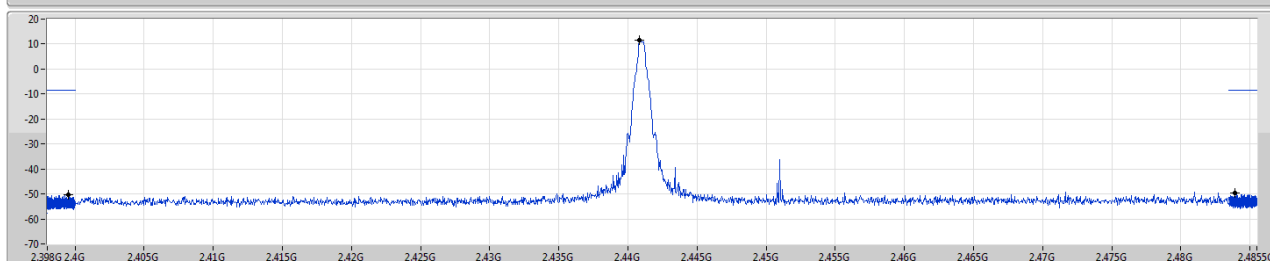
CSE NdB

2441MHz

16/07/2019



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
244083G	11.69	-8.31	2408306G	-51.38	239951G	-50.34	248392G	-49.58	245075G	-34.95	1

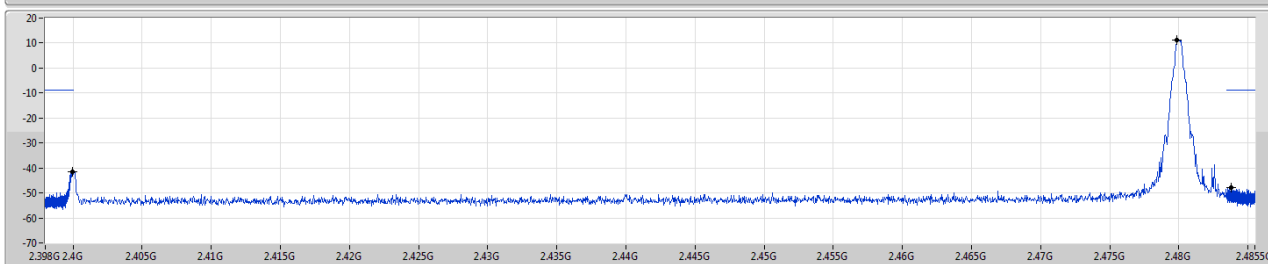
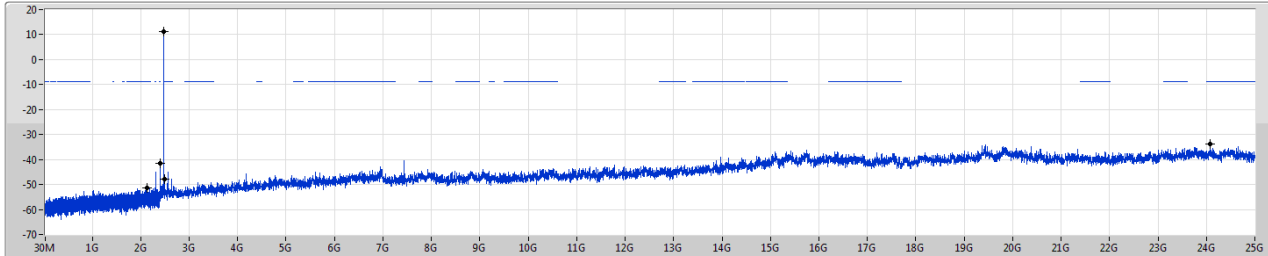
BT-BR(1Mbps)

2480MHz

CSE NdB

16/07/2019

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
247983G	11.25	-8.75	2.12894G	-51.50	2.39996G	-41.53	2.4838G	-47.93	24.08535G	-33.74	1

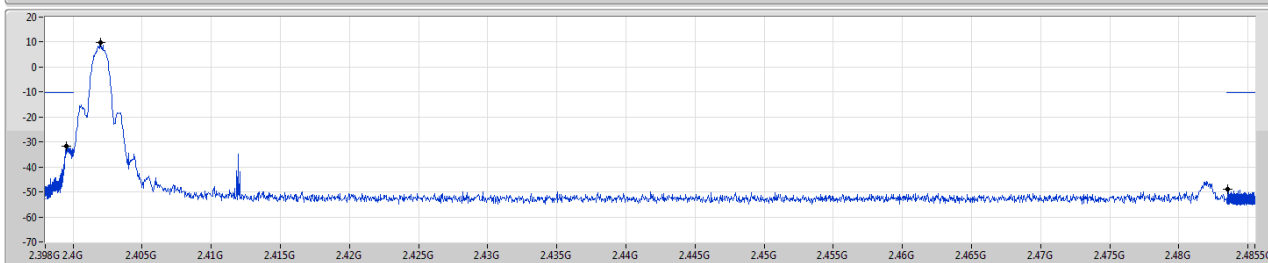
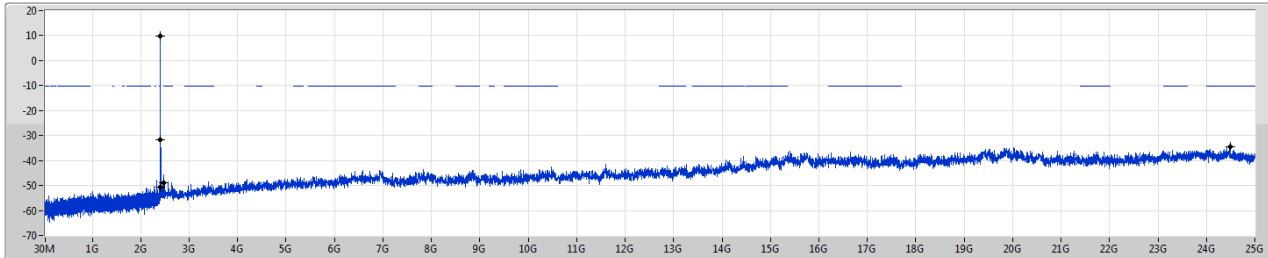
BT-EDR(2Mbps)

2402MHz

CSE NdB

16/07/2019

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
2402G	9.80	-10.20	2.39504G	-50.60	2.39951G	-31.84	2.48353G	-48.84	24.48498G	-34.51	1

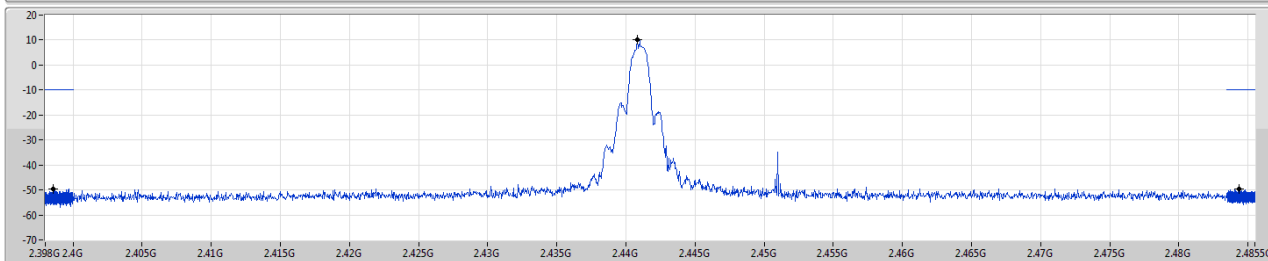
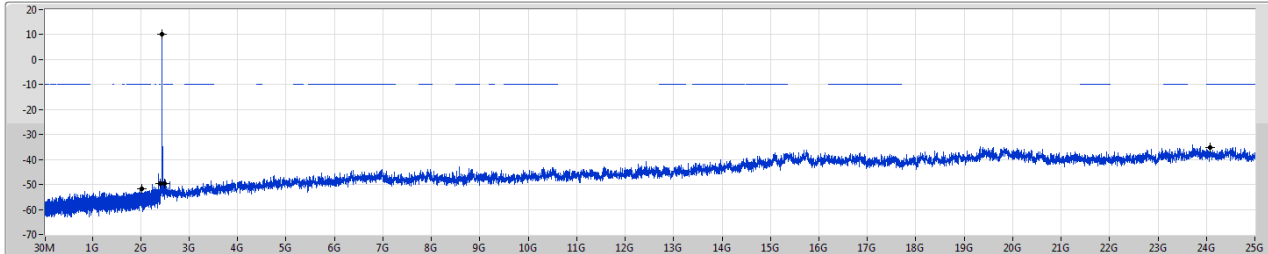
BT-EDR(2Mbps)

2441MHz

CSE NdB

16/07/2019

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
2.44083G	10.02	-9.98	2.02297G	-51.61	2.39857G	-49.47	2.48438G	-49.61	24.07691G	-35.20	1

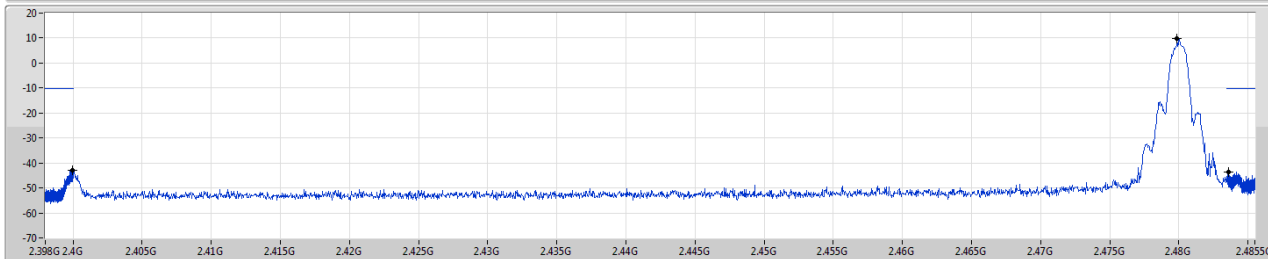
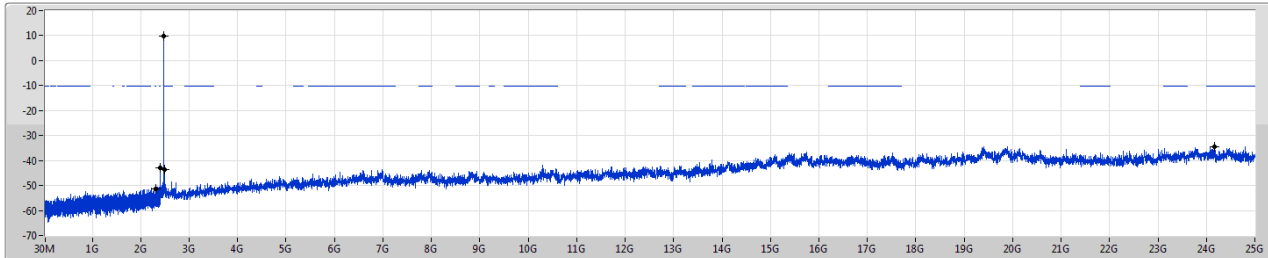
BT-EDR(2Mbps)

2480MHz

CSE NdB

16/07/2019

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	9.71	-10.29	2.30506G	-51.36	2.39999G	-42.93	2.48361G	-43.58	24.17541G	-34.32	1

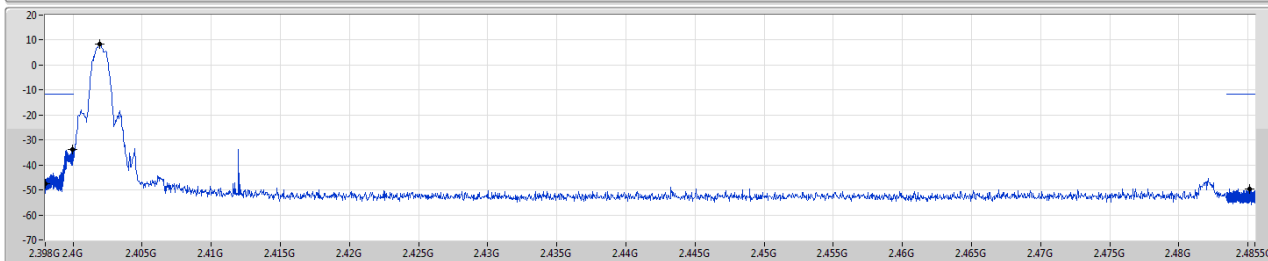
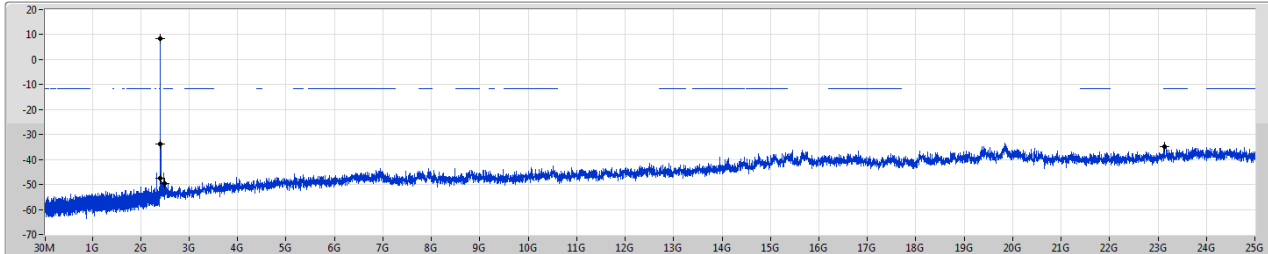
BT-EDR(3Mbps)

2402MHz

CSE NdB

16/07/2019

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
2.40192G	8.31	-11.69	2.398G	-47.36	2.39995G	-33.78	2.48512G	-49.53	23.12848G	-34.86	1

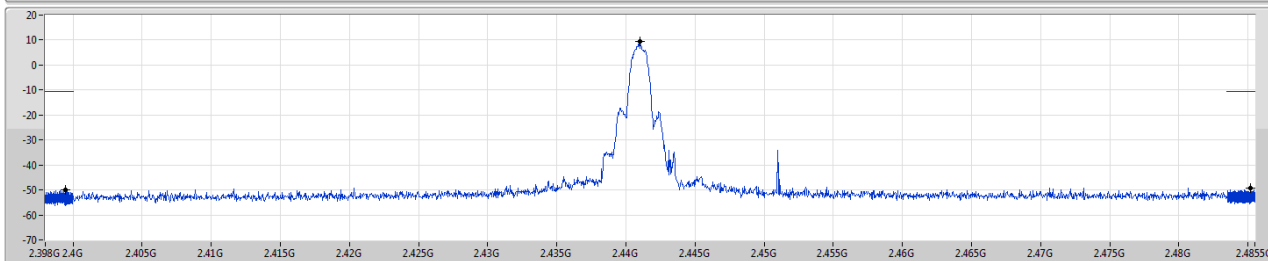
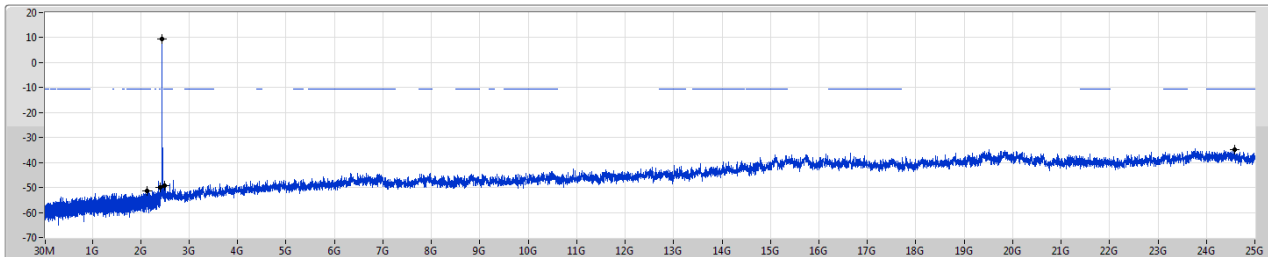
BT-EDR(3Mbps)

2441MHz

CSE NdB

16/07/2019

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
2.441G	9.43	-10.57	2.1387G	-51.35	2.39945G	-49.81	2.48521G	-49.34	24.57785G	-34.99	1

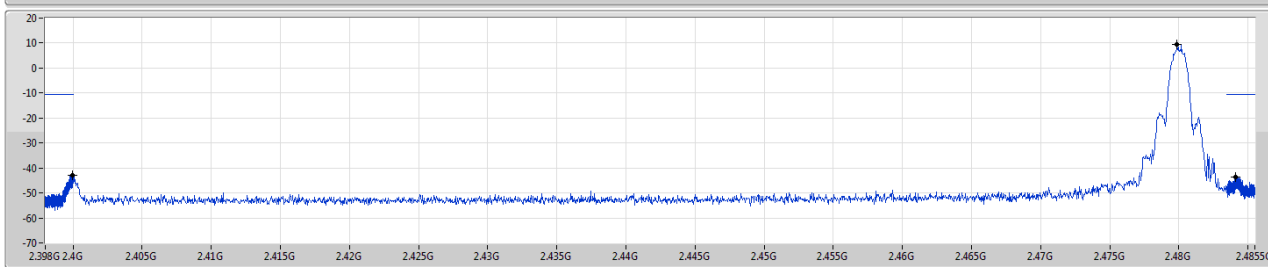
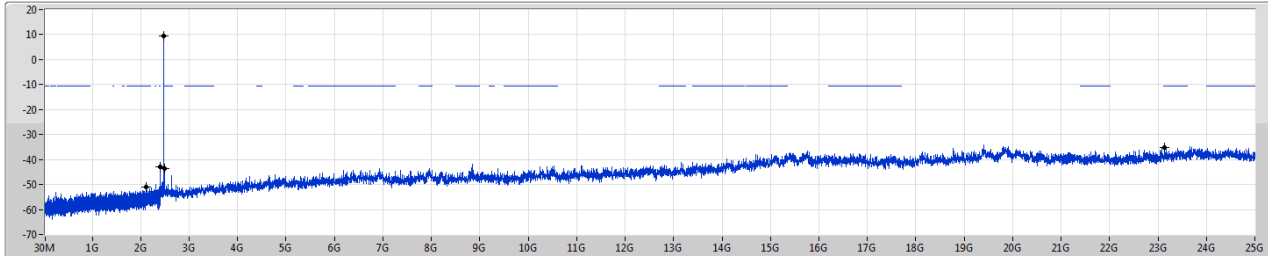
BT-EDR(3Mbps)

2480MHz

CSE NdB

16/07/2019

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	9.38	-10.62	2.10881G	-51.11	2.39998G	-42.78	2.48413G	-43.79	23.13411G	-35.29	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-EDR(3Mbps)	Pass	PK	503.36M	36.07	46.00	-9.93	-2.42	3	Horizontal	0	1.00	-

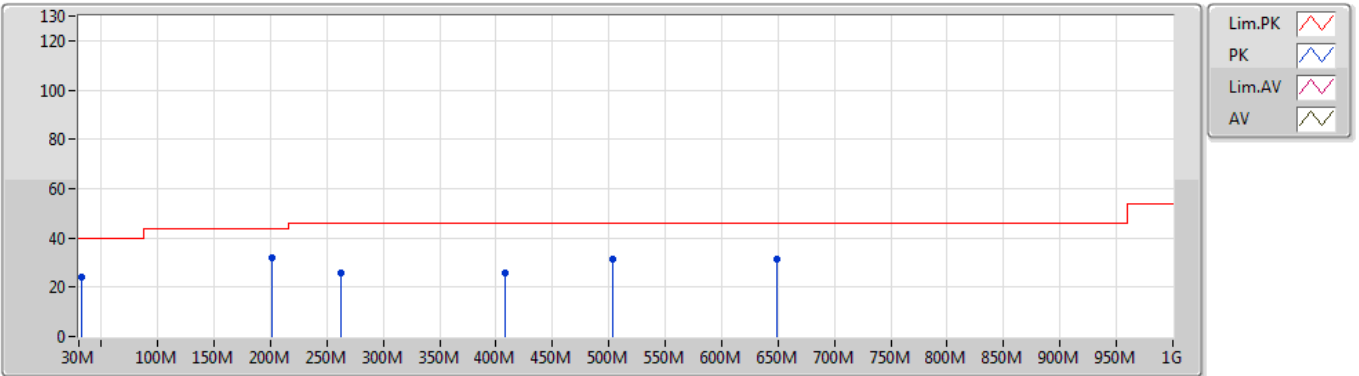
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2441MHz	Pass	PK	31.94M	23.91	40.00	-16.09	-5.43	3	Vertical	360	1.00	-
2441MHz	Pass	PK	200.72M	31.66	43.50	-11.84	-10.60	3	Vertical	360	1.00	-
2441MHz	Pass	PK	262.8M	25.88	46.00	-20.12	-5.82	3	Vertical	360	1.00	-
2441MHz	Pass	PK	408.3M	25.87	46.00	-20.13	-3.46	3	Vertical	360	1.00	-
2441MHz	Pass	PK	503.36M	31.24	46.00	-14.76	-2.42	3	Vertical	360	1.00	-
2441MHz	Pass	PK	648.86M	31.31	46.00	-14.69	-0.50	3	Vertical	360	1.00	-
2441MHz	Pass	PK	144.46M	29.63	43.50	-13.87	-9.96	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	233.7M	34.77	46.00	-11.23	-8.89	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	301.6M	34.37	46.00	-11.63	-5.87	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	408.3M	29.28	46.00	-16.72	-3.46	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	503.36M	36.07	46.00	-9.93	-2.42	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	743.92M	32.81	46.00	-13.19	0.62	3	Horizontal	0	1.00	-

BT-EDR(3Mbps)

16/07/2019

2441MHz_Adapter

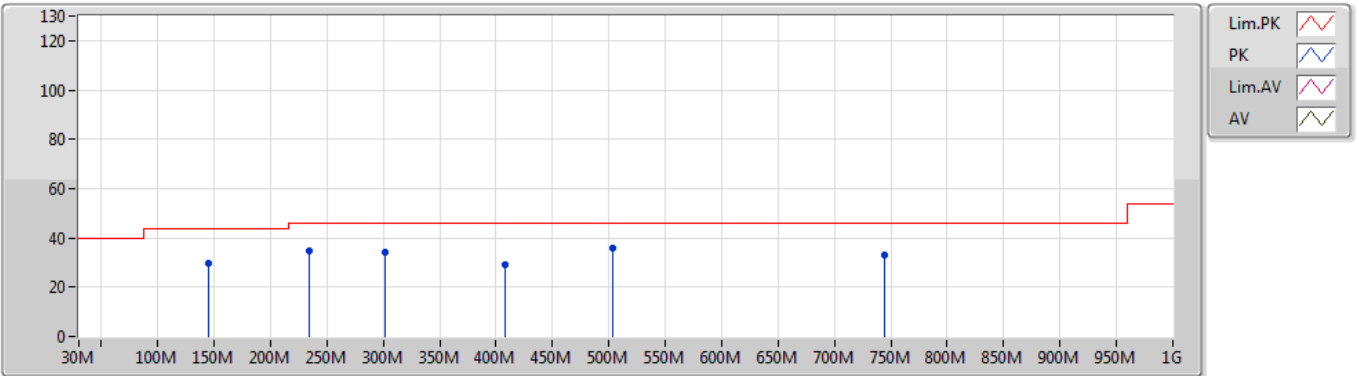


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	31.94M	23.91	40.00	-16.09	-5.43	3	Vertical	360	1.00	-	29.34	21.90	0.36	27.69
PK	200.72M	31.66	43.50	-11.84	-10.60	3	Vertical	360	1.00	-	42.26	14.47	2.32	27.39
PK	262.8M	25.88	46.00	-20.12	-5.82	3	Vertical	360	1.00	-	31.70	18.59	2.77	27.18
PK	408.3M	25.87	46.00	-20.13	-3.46	3	Vertical	360	1.00	-	29.33	21.28	3.20	27.94
PK	503.36M	31.24	46.00	-14.76	-2.42	3	Vertical	360	1.00	-	33.66	22.68	3.33	28.43
PK	648.86M	31.31	46.00	-14.69	-0.50	3	Vertical	360	1.00	-	31.81	24.24	3.80	28.54

BT-EDR(3Mbps)

16/07/2019

2441MHz_Adapter



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	144.46M	29.63	43.50	-13.87	-9.96	3	Horizontal	0	1.00	-	39.59	15.89	1.80	27.65
PK	233.7M	34.77	46.00	-11.23	-8.89	3	Horizontal	0	1.00	-	43.66	15.73	2.63	27.25
PK	301.6M	34.37	46.00	-11.63	-5.87	3	Horizontal	0	1.00	-	40.24	18.31	3.00	27.18
PK	408.3M	29.28	46.00	-16.72	-3.46	3	Horizontal	0	1.00	-	32.74	21.28	3.20	27.94
PK	503.36M	36.07	46.00	-9.93	-2.42	3	Horizontal	0	1.00	-	38.49	22.68	3.33	28.43
PK	743.92M	32.81	46.00	-13.19	0.62	3	Horizontal	0	1.00	-	32.19	24.86	4.11	28.35



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	2.49G	59.56	74.00	-14.44	33.66	3	Horizontal	298	1.50	-
BT-EDR(3Mbps)	Pass	PK	2.3794G	60.21	74.00	-13.79	33.79	3	Horizontal	296	1.00	-

Result

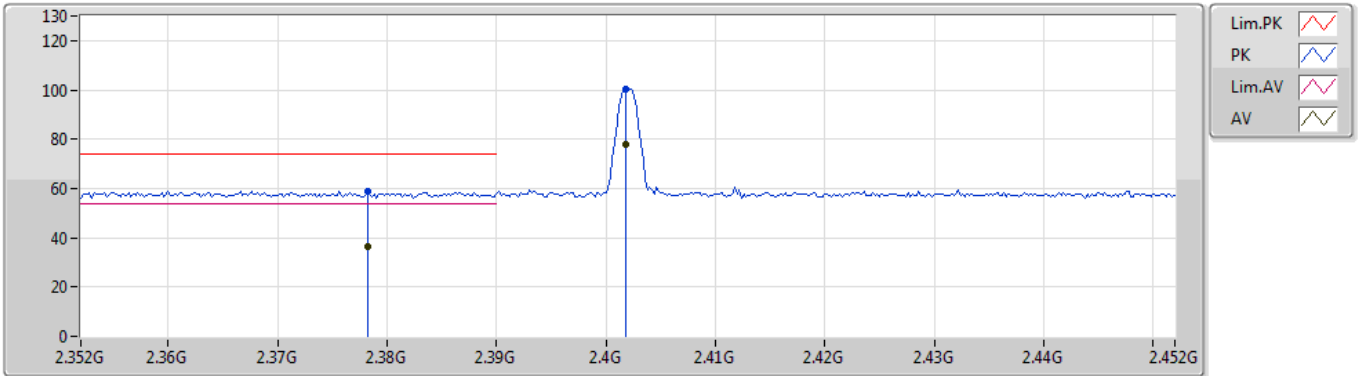
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3782G	36.50	54.00	-17.50	33.80	3	Vertical	288	1.02	-
2402MHz	Pass	AV	2.4018G	78.06	Inf	-Inf	33.71	3	Vertical	288	1.02	-
2402MHz	Pass	PK	2.3782G	59.00	74.00	-15.00	33.80	3	Vertical	288	1.02	-
2402MHz	Pass	PK	2.4018G	100.56	Inf	-Inf	33.71	3	Vertical	288	1.02	-
2402MHz	Pass	AV	2.3824G	36.30	54.00	-17.70	33.78	3	Horizontal	298	1.01	-
2402MHz	Pass	AV	2.4022G	78.72	Inf	-Inf	33.71	3	Horizontal	298	1.01	-
2402MHz	Pass	PK	2.3824G	58.80	74.00	-15.20	33.78	3	Horizontal	298	1.01	-
2402MHz	Pass	PK	2.4022G	101.22	Inf	-Inf	33.71	3	Horizontal	298	1.01	-
2402MHz	Pass	AV	4.80242G	27.36	54.00	-26.64	10.22	3	Vertical	219	1.50	-
2402MHz	Pass	PK	4.80279G	49.86	74.00	-24.14	10.22	3	Vertical	219	1.50	-
2402MHz	Pass	AV	4.80387G	26.94	54.00	-27.06	10.22	3	Horizontal	293	1.28	-
2402MHz	Pass	PK	4.802G	49.44	74.00	-24.56	10.22	3	Horizontal	293	1.28	-
2441MHz	Pass	PK	2.361G	58.90	74.00	-15.10	33.88	3	Vertical	99	1.01	-
2441MHz	Pass	PK	2.441G	101.10	Inf	-Inf	33.69	3	Vertical	99	1.01	-
2441MHz	Pass	PK	2.499G	59.26	74.00	-14.74	33.65	3	Vertical	99	1.01	-
2441MHz	Pass	AV	2.361G	36.40	54.00	-17.60	33.88	3	Vertical	99	1.01	-
2441MHz	Pass	AV	2.441G	78.60	Inf	-Inf	33.69	3	Vertical	99	1.01	-
2441MHz	Pass	AV	2.499G	36.76	54.00	-17.24	33.65	3	Vertical	99	1.01	-
2441MHz	Pass	AV	2.361G	36.65	54.00	-17.35	33.88	3	Horizontal	300	2.01	-
2441MHz	Pass	AV	2.441G	79.27	Inf	-Inf	33.69	3	Horizontal	300	2.01	-
2441MHz	Pass	AV	2.4986G	36.25	54.00	-17.75	33.65	3	Horizontal	300	2.01	-
2441MHz	Pass	PK	2.361G	59.15	74.00	-14.85	33.88	3	Horizontal	300	2.01	-
2441MHz	Pass	PK	2.441G	101.77	Inf	-Inf	33.69	3	Horizontal	300	2.01	-
2441MHz	Pass	PK	2.4986G	58.75	74.00	-15.25	33.65	3	Horizontal	300	2.01	-
2441MHz	Pass	AV	4.8841G	25.54	54.00	-28.46	10.29	3	Vertical	133	1.86	-
2441MHz	Pass	PK	4.8841G	48.07	74.00	-25.93	10.29	3	Vertical	133	1.86	-
2441MHz	Pass	AV	4.88335G	26.65	54.00	-27.35	10.29	3	Horizontal	138	2.05	-
2441MHz	Pass	PK	4.88335G	49.15	74.00	-24.85	10.29	3	Horizontal	138	2.05	-
2480MHz	Pass	AV	2.4802G	78.46	Inf	-Inf	33.67	3	Vertical	102	1.01	-
2480MHz	Pass	AV	2.4976G	36.77	54.00	-17.23	33.65	3	Vertical	102	1.01	-
2480MHz	Pass	PK	2.4802G	100.96	Inf	-Inf	33.67	3	Vertical	102	1.01	-
2480MHz	Pass	PK	2.4976G	59.27	74.00	-14.73	33.65	3	Vertical	102	1.01	-
2480MHz	Pass	AV	2.48G	77.86	Inf	-Inf	33.67	3	Horizontal	298	1.50	-
2480MHz	Pass	AV	2.49G	37.06	54.00	-16.94	33.66	3	Horizontal	298	1.50	-
2480MHz	Pass	PK	2.48G	100.36	Inf	-Inf	33.67	3	Horizontal	298	1.50	-
2480MHz	Pass	PK	2.49G	59.56	74.00	-14.44	33.66	3	Horizontal	298	1.50	-
2480MHz	Pass	AV	4.95809G	25.21	54.00	-28.79	10.25	3	Vertical	54	1.50	-
2480MHz	Pass	PK	4.95809G	47.71	74.00	-26.29	10.25	3	Vertical	54	1.50	-
2480MHz	Pass	AV	4.96018G	25.60	54.00	-28.40	10.26	3	Horizontal	357	1.50	-
2480MHz	Pass	PK	4.96018G	48.10	74.00	-25.90	10.26	3	Horizontal	357	1.50	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.38G	36.33	54.00	-17.67	33.79	3	Vertical	288	1.02	-
2402MHz	Pass	AV	2.402G	74.15	Inf	-Inf	33.71	3	Vertical	288	1.02	-
2402MHz	Pass	PK	2.38G	58.83	74.00	-15.17	33.79	3	Vertical	288	1.02	-
2402MHz	Pass	PK	2.402G	96.65	Inf	-Inf	33.71	3	Vertical	288	1.02	-
2402MHz	Pass	AV	2.3794G	37.71	54.00	-16.29	33.79	3	Horizontal	296	1.00	-
2402MHz	Pass	AV	2.402G	75.08	Inf	-Inf	33.71	3	Horizontal	296	1.00	-

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	2.3794G	60.21	74.00	-13.79	33.79	3	Horizontal	296	1.00	-
2402MHz	Pass	PK	2.402G	97.58	Inf	-Inf	33.71	3	Horizontal	296	1.00	-
2402MHz	Pass	AV	4.80302G	26.95	54.00	-27.05	10.22	3	Vertical	168	1.26	-
2402MHz	Pass	PK	4.80302G	49.45	74.00	-24.55	10.22	3	Vertical	168	1.26	-
2402MHz	Pass	AV	4.80302G	26.88	54.00	-27.12	10.22	3	Horizontal	126	1.50	-
2402MHz	Pass	PK	4.8032G	49.38	74.00	-24.62	10.22	3	Horizontal	126	1.50	-
2441MHz	Pass	AV	2.3654G	34.37	54.00	-19.63	31.99	3	Vertical	316	1.14	-
2441MHz	Pass	AV	2.441G	75.36	Inf	-Inf	32.30	3	Vertical	316	1.14	-
2441MHz	Pass	AV	2.4922G	34.56	54.00	-19.44	32.52	3	Vertical	316	1.14	-
2441MHz	Pass	PK	2.3654G	56.87	74.00	-17.13	31.99	3	Vertical	316	1.14	-
2441MHz	Pass	PK	2.441G	97.86	Inf	-Inf	32.30	3	Vertical	316	1.14	-
2441MHz	Pass	PK	2.4922G	57.06	74.00	-16.94	32.52	3	Vertical	316	1.14	-
2441MHz	Pass	AV	2.3598G	33.89	54.00	-20.11	31.96	3	Horizontal	224	1.02	-
2441MHz	Pass	AV	2.4414G	75.73	Inf	-Inf	32.30	3	Horizontal	224	1.02	-
2441MHz	Pass	AV	2.497G	34.61	54.00	-19.39	32.53	3	Horizontal	224	1.02	-
2441MHz	Pass	PK	2.3598G	56.39	74.00	-17.61	31.96	3	Horizontal	224	1.02	-
2441MHz	Pass	PK	2.4414G	98.23	Inf	-Inf	32.30	3	Horizontal	224	1.02	-
2441MHz	Pass	PK	2.497G	57.11	74.00	-16.89	32.53	3	Horizontal	224	1.02	-
2441MHz	Pass	AV	4.88161G	20.66	54.00	-33.34	3.83	3	Vertical	333	1.62	-
2441MHz	Pass	PK	4.88161G	43.16	74.00	-30.84	3.83	3	Vertical	333	1.62	-
2441MHz	Pass	AV	4.88238G	21.92	54.00	-32.08	3.83	3	Horizontal	38	2.33	-
2441MHz	Pass	PK	4.88238G	44.42	74.00	-29.58	3.83	3	Horizontal	38	2.33	-
2480MHz	Pass	AV	2.48G	76.11	Inf	-Inf	32.46	3	Vertical	313	1.13	-
2480MHz	Pass	AV	2.49G	37.25	54.00	-16.75	32.51	3	Vertical	313	1.13	-
2480MHz	Pass	PK	2.48G	98.61	Inf	-Inf	32.46	3	Vertical	313	1.13	-
2480MHz	Pass	PK	2.49G	59.75	74.00	-14.25	32.51	3	Vertical	313	1.13	-
2480MHz	Pass	AV	2.4802G	76.69	Inf	-Inf	32.46	3	Horizontal	228	2.56	-
2480MHz	Pass	AV	2.4902G	37.41	54.00	-16.59	32.51	3	Horizontal	228	2.56	-
2480MHz	Pass	PK	2.4802G	99.19	Inf	-Inf	32.46	3	Horizontal	228	2.56	-
2480MHz	Pass	PK	2.4902G	59.91	74.00	-14.09	32.51	3	Horizontal	228	2.56	-
2480MHz	Pass	AV	4.95862G	20.88	54.00	-33.12	4.02	3	Horizontal	343	1.50	-
2480MHz	Pass	PK	4.95862G	43.38	74.00	-30.62	4.02	3	Horizontal	343	1.50	-
2480MHz	Pass	AV	4.95848G	20.58	54.00	-33.42	4.02	3	Horizontal	36	2.41	-
2480MHz	Pass	PK	4.95848G	43.08	74.00	-30.92	4.02	3	Horizontal	36	2.41	-

BT-BR(1Mbps)

15/07/2019

2402MHz_TX

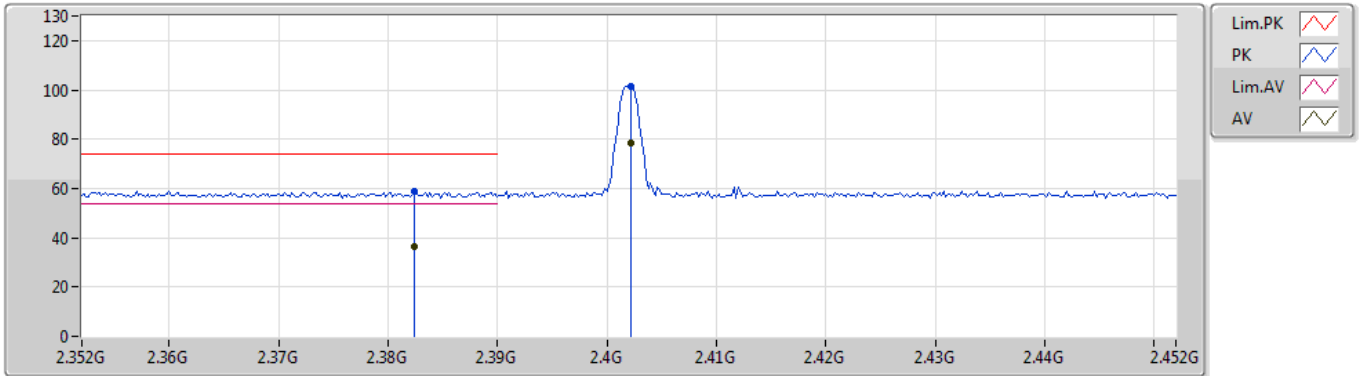


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3782G	36.50	54.00	-17.50	33.80	3	Vertical	288	1.02	-	2.70	27.69	6.11	-
AV	2.4018G	78.06	Inf	-Inf	33.71	3	Vertical	288	1.02	-	44.35	27.60	6.11	-
PK	2.3782G	59.00	74.00	-15.00	33.80	3	Vertical	288	1.02	-	25.20	27.69	6.11	-
PK	2.4018G	100.56	Inf	-Inf	33.71	3	Vertical	288	1.02	-	66.85	27.60	6.11	-

BT-BR(1Mbps)

15/07/2019

2402MHz_TX

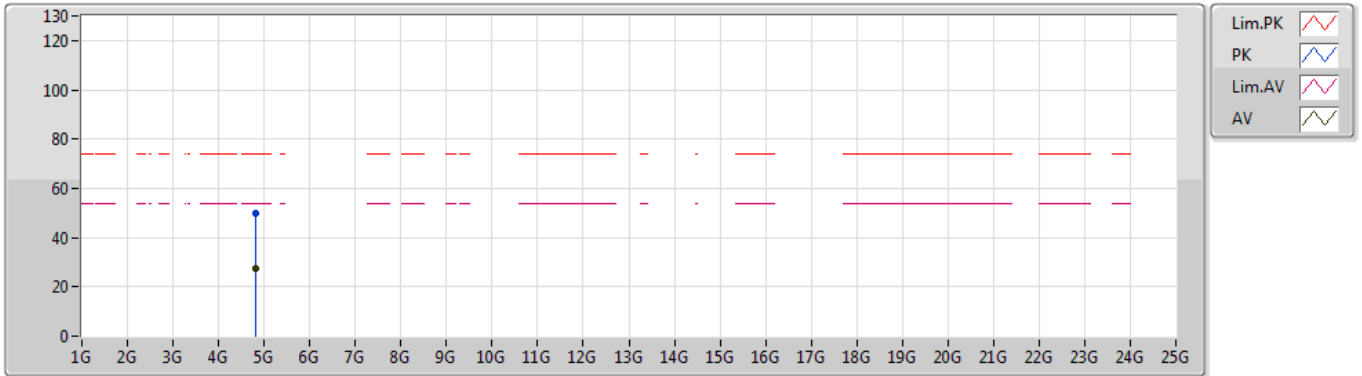


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3824G	36.30	54.00	-17.70	33.78	3	Horizontal	298	1.01	-	2.52	27.67	6.11	-
AV	2.4022G	78.72	Inf	-Inf	33.71	3	Horizontal	298	1.01	-	45.01	27.60	6.11	-
PK	2.3824G	58.80	74.00	-15.20	33.78	3	Horizontal	298	1.01	-	25.02	27.67	6.11	-
PK	2.4022G	101.22	Inf	-Inf	33.71	3	Horizontal	298	1.01	-	67.51	27.60	6.11	-

BT-BR(1Mbps)

15/07/2019

2402MHz_TX

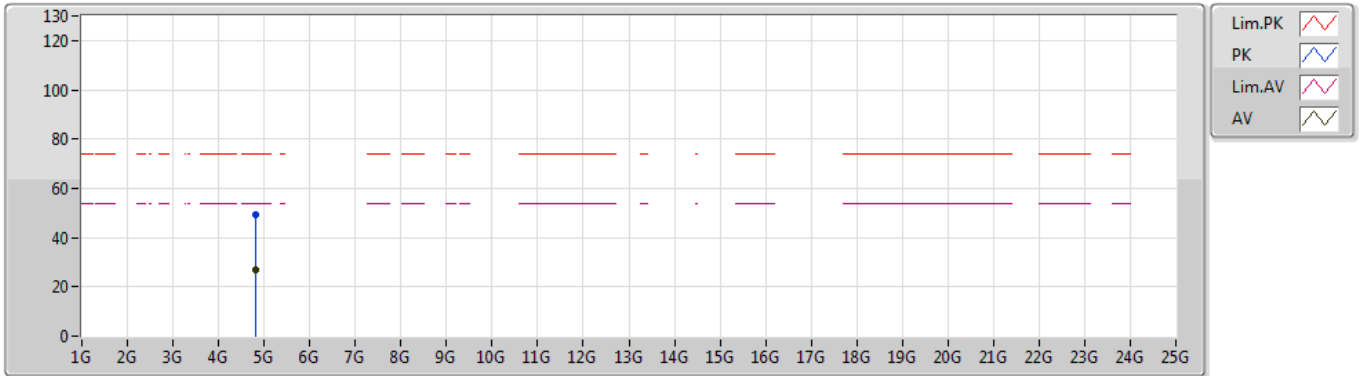


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80242G	27.36	54.00	-26.64	10.22	3	Vertical	219	1.50	-	17.14	31.10	8.90	29.78
PK	4.80279G	49.86	74.00	-24.14	10.22	3	Vertical	219	1.50	-	39.64	31.10	8.90	29.78

BT-BR(1Mbps)

15/07/2019

2402MHz_TX

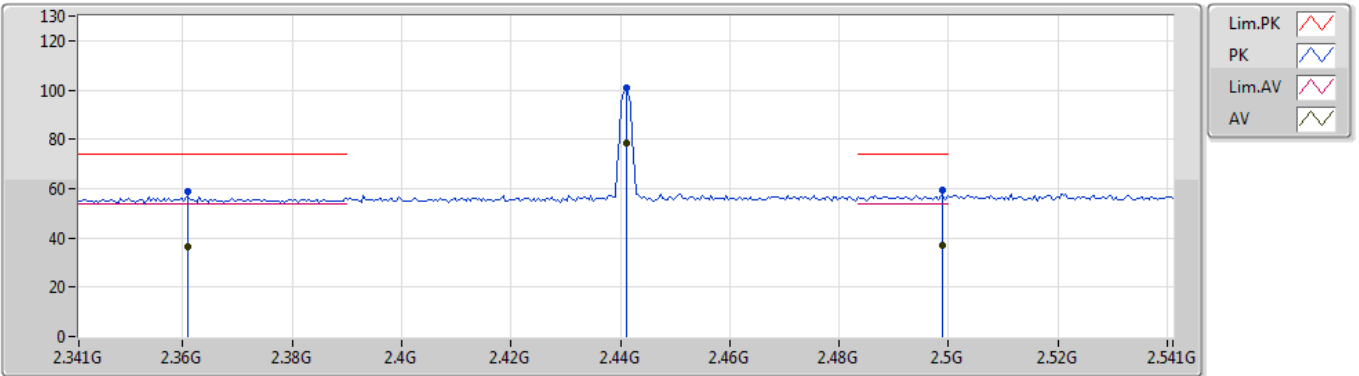


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80387G	26.94	54.00	-27.06	10.22	3	Horizontal	293	1.28	-	16.72	31.10	8.90	29.78
PK	4.802G	49.44	74.00	-24.56	10.22	3	Horizontal	293	1.28	-	39.22	31.10	8.90	29.78

BT-BR(1Mbps)

15/07/2019

2441MHz_TX

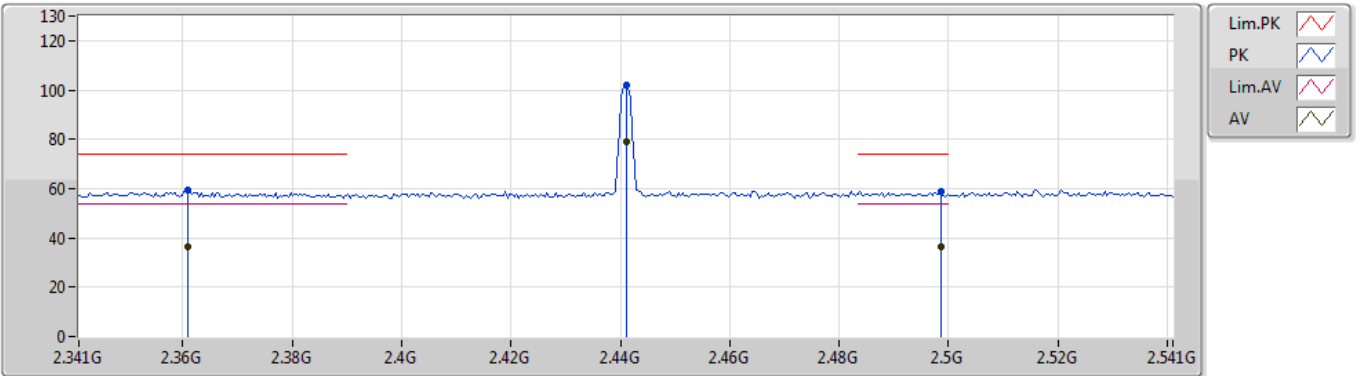


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.361G	36.40	54.00	-17.60	33.88	3	Vertical	99	1.01	-	2.52	27.76	6.12	-
AV	2.441G	78.60	Inf	-Inf	33.69	3	Vertical	99	1.01	-	44.91	27.56	6.13	-
AV	2.499G	36.76	54.00	-17.24	33.65	3	Vertical	99	1.01	-	3.11	27.50	6.15	-
PK	2.361G	58.90	74.00	-15.10	33.88	3	Vertical	99	1.01	-	25.02	27.76	6.12	-
PK	2.441G	101.10	Inf	-Inf	33.69	3	Vertical	99	1.01	-	67.41	27.56	6.13	-
PK	2.499G	59.26	74.00	-14.74	33.65	3	Vertical	99	1.01	-	25.61	27.50	6.15	-

BT-BR(1Mbps)

15/07/2019

2441MHz_TX

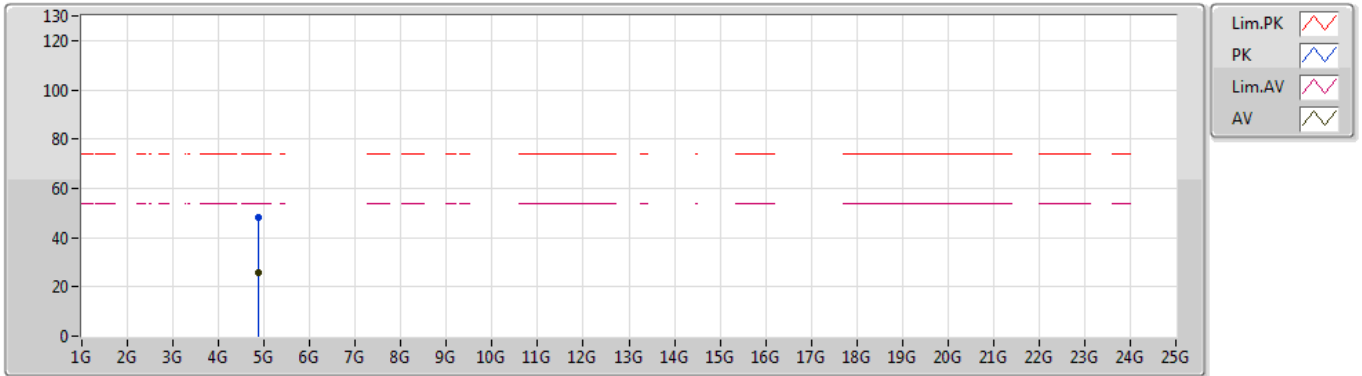


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.361G	36.65	54.00	-17.35	33.88	3	Horizontal	300	2.01	-	2.77	27.76	6.12	-
AV	2.441G	79.27	Inf	-Inf	33.69	3	Horizontal	300	2.01	-	45.58	27.56	6.13	-
AV	2.4986G	36.25	54.00	-17.75	33.65	3	Horizontal	300	2.01	-	2.60	27.50	6.15	-
PK	2.361G	59.15	74.00	-14.85	33.88	3	Horizontal	300	2.01	-	25.27	27.76	6.12	-
PK	2.441G	101.77	Inf	-Inf	33.69	3	Horizontal	300	2.01	-	68.08	27.56	6.13	-
PK	2.4986G	58.75	74.00	-15.25	33.65	3	Horizontal	300	2.01	-	25.10	27.50	6.15	-

BT-BR(1Mbps)

15/07/2019

2441MHz_TX

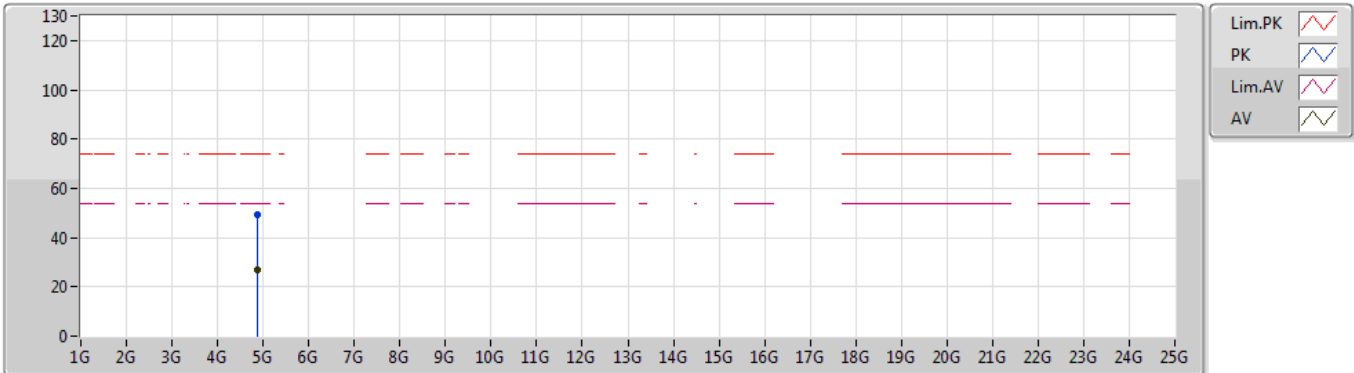


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8841G	25.54	54.00	-28.46	10.29	3	Vertical	133	1.86	-	15.25	31.10	8.96	29.77
PK	4.8841G	48.07	74.00	-25.93	10.29	3	Vertical	133	1.86	-	37.78	31.10	8.96	29.77

BT-BR(1Mbps)

15/07/2019

2441MHz_TX

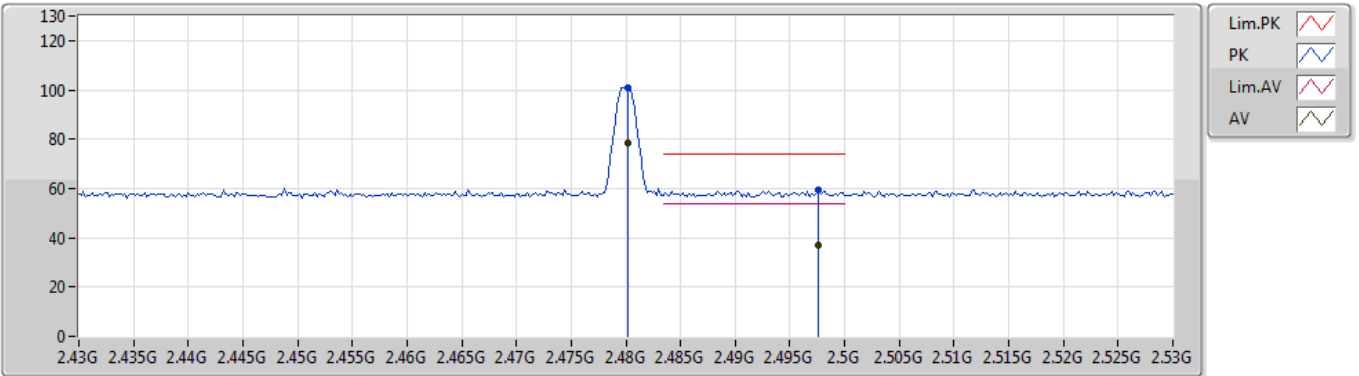


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88335G	26.65	54.00	-27.35	10.29	3	Horizontal	138	2.05	-	16.36	31.10	8.96	29.77
PK	4.88335G	49.15	74.00	-24.85	10.29	3	Horizontal	138	2.05	-	38.86	31.10	8.96	29.77

BT-BR(1Mbps)

15/07/2019

2480MHz_TX

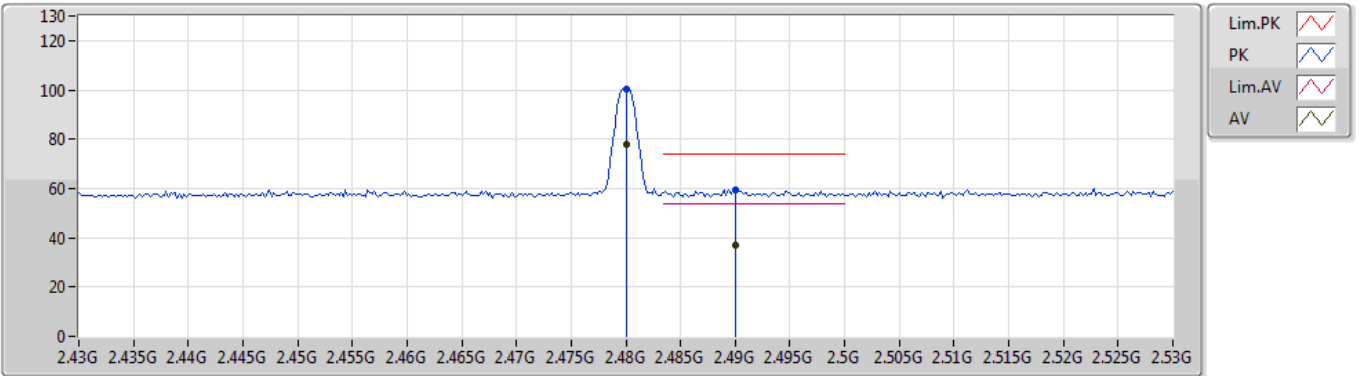


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4802G	78.46	Inf	-Inf	33.67	3	Vertical	102	1.01	-	44.79	27.52	6.15	-
AV	2.4976G	36.77	54.00	-17.23	33.65	3	Vertical	102	1.01	-	3.12	27.50	6.15	-
PK	2.4802G	100.96	Inf	-Inf	33.67	3	Vertical	102	1.01	-	67.29	27.52	6.15	-
PK	2.4976G	59.27	74.00	-14.73	33.65	3	Vertical	102	1.01	-	25.62	27.50	6.15	-

BT-BR(1Mbps)

15/07/2019

2480MHz_TX

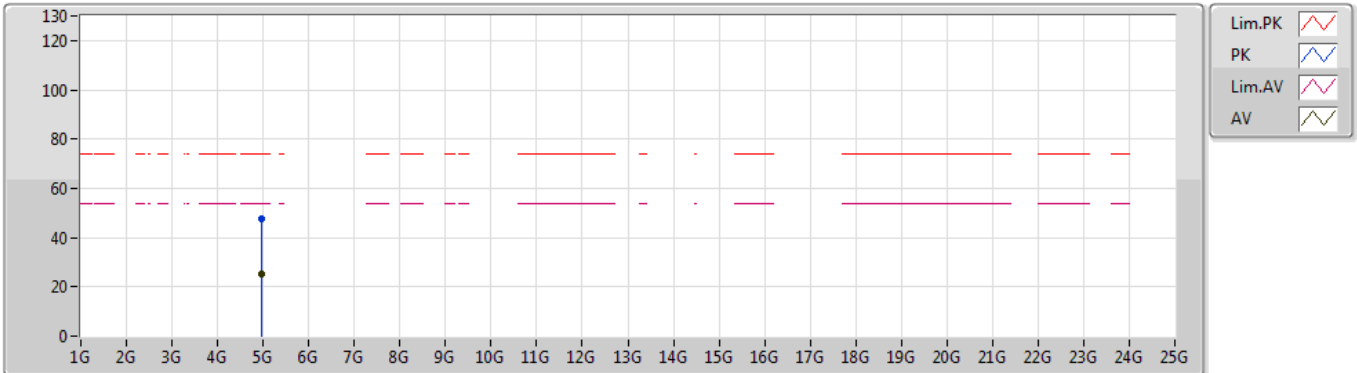


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	77.86	Inf	-Inf	33.67	3	Horizontal	298	1.50	-	44.19	27.52	6.15	-
AV	2.49G	37.06	54.00	-16.94	33.66	3	Horizontal	298	1.50	-	3.40	27.51	6.15	-
PK	2.48G	100.36	Inf	-Inf	33.67	3	Horizontal	298	1.50	-	66.69	27.52	6.15	-
PK	2.49G	59.56	74.00	-14.44	33.66	3	Horizontal	298	1.50	-	25.90	27.51	6.15	-

BT-BR(1Mbps)

15/07/2019

2480MHz_TX

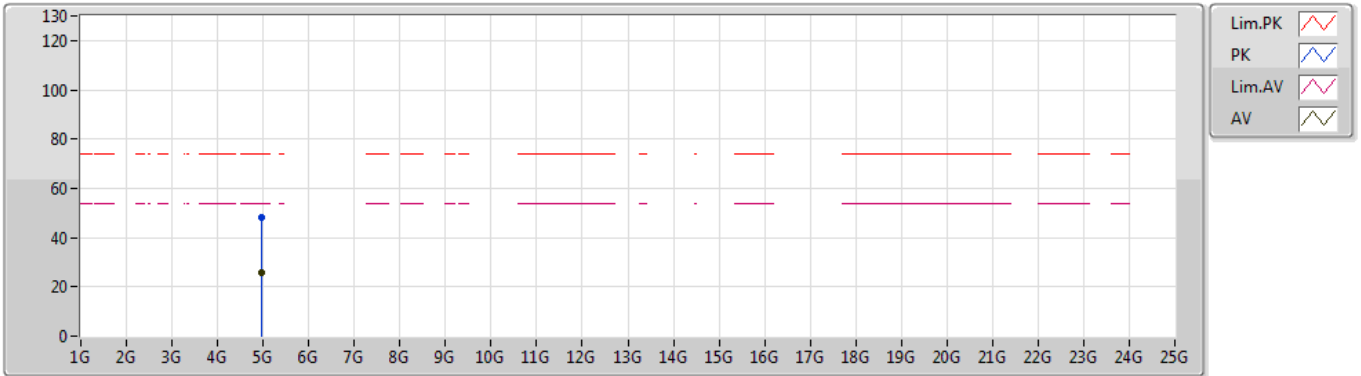


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.95809G	25.21	54.00	-28.79	10.25	3	Vertical	54	1.50	-	14.96	31.33	9.02	30.10
PK	4.95809G	47.71	74.00	-26.29	10.25	3	Vertical	54	1.50	-	37.46	31.33	9.02	30.10

BT-BR(1Mbps)

15/07/2019

2480MHz_TX

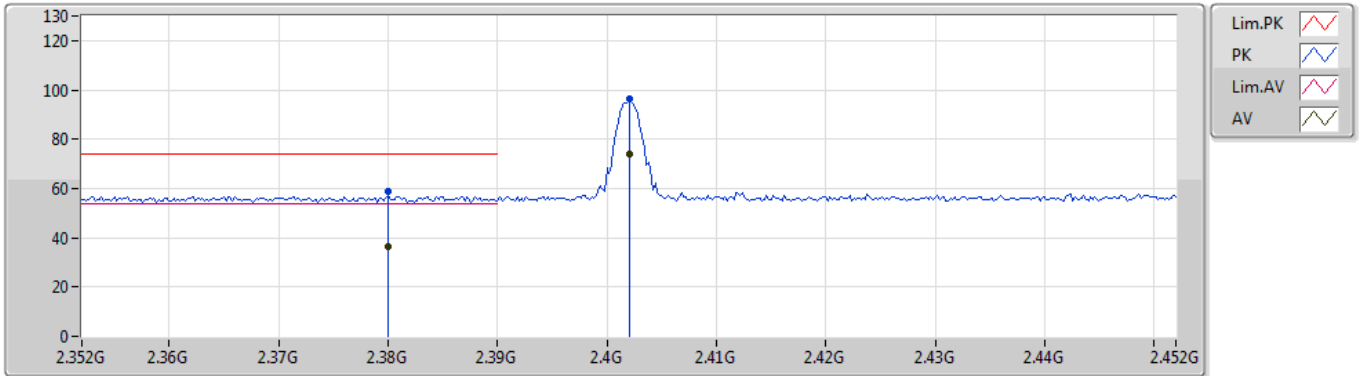


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96018G	25.60	54.00	-28.40	10.26	3	Horizontal	357	1.50	-	15.34	31.34	9.03	30.11
PK	4.96018G	48.10	74.00	-25.90	10.26	3	Horizontal	357	1.50	-	37.84	31.34	9.03	30.11

BT-EDR(3Mbps)

15/07/2019

2402MHz_TX

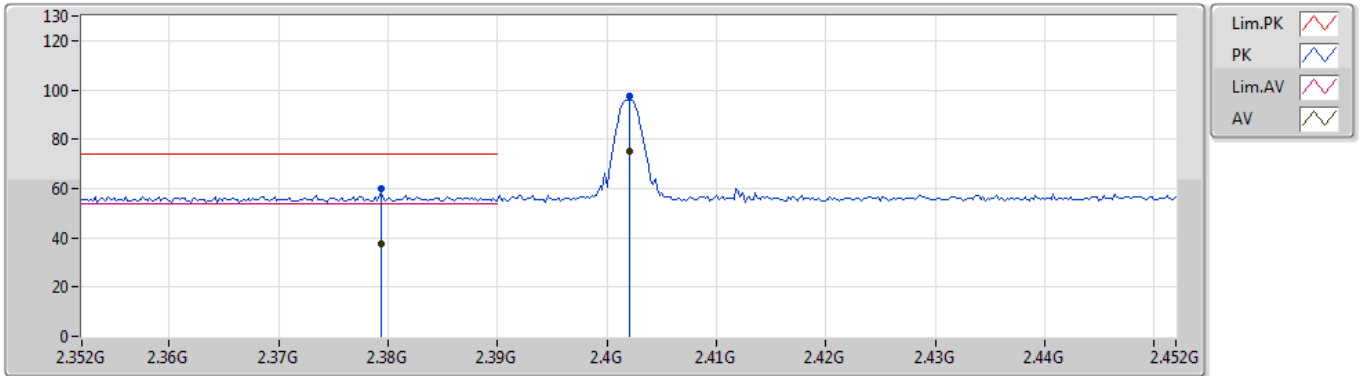


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.38G	36.33	54.00	-17.67	33.79	3	Vertical	288	1.02	-	2.54	27.68	6.11	-
AV	2.402G	74.15	Inf	-Inf	33.71	3	Vertical	288	1.02	-	40.44	27.60	6.11	-
PK	2.38G	58.83	74.00	-15.17	33.79	3	Vertical	288	1.02	-	25.04	27.68	6.11	-
PK	2.402G	96.65	Inf	-Inf	33.71	3	Vertical	288	1.02	-	62.94	27.60	6.11	-

BT-EDR(3Mbps)

15/07/2019

2402MHz_TX

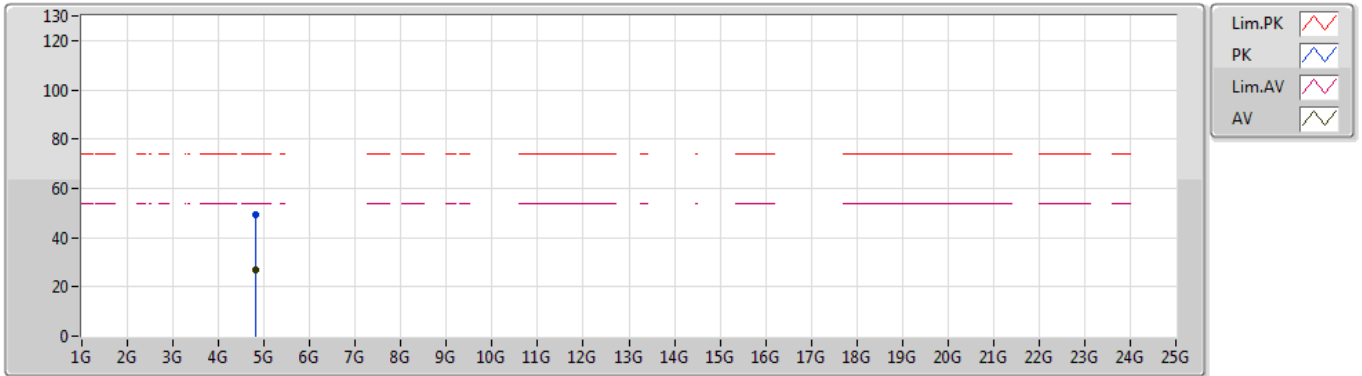


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3794G	37.71	54.00	-16.29	33.79	3	Horizontal	296	1.00	-	3.92	27.68	6.11	-
AV	2.402G	75.08	Inf	-Inf	33.71	3	Horizontal	296	1.00	-	41.37	27.60	6.11	-
PK	2.3794G	60.21	74.00	-13.79	33.79	3	Horizontal	296	1.00	-	26.42	27.68	6.11	-
PK	2.402G	97.58	Inf	-Inf	33.71	3	Horizontal	296	1.00	-	63.87	27.60	6.11	-

BT-EDR(3Mbps)

15/07/2019

2402MHz_TX

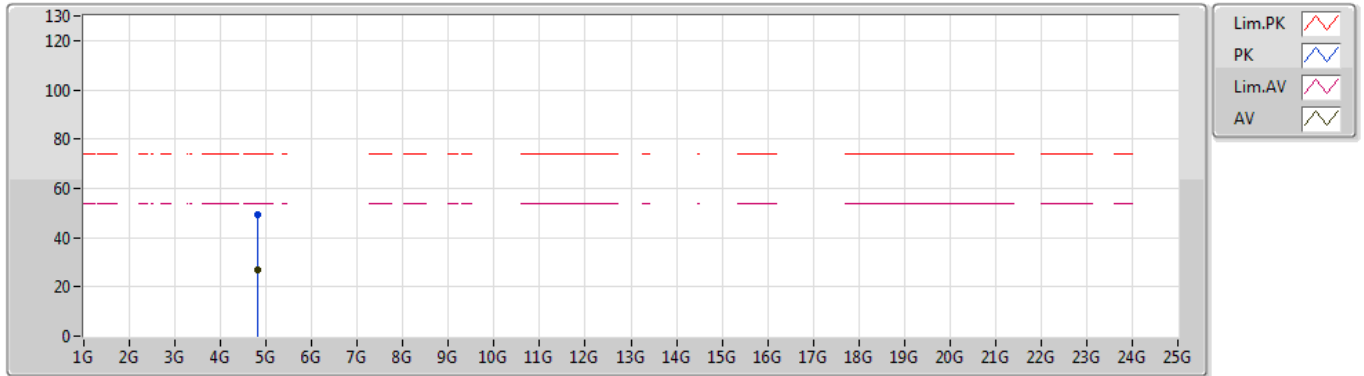


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80302G	26.95	54.00	-27.05	10.22	3	Vertical	168	1.26	-	16.73	31.10	8.90	29.78
PK	4.80302G	49.45	74.00	-24.55	10.22	3	Vertical	168	1.26	-	39.23	31.10	8.90	29.78

BT-EDR(3Mbps)

15/07/2019

2402MHz_TX

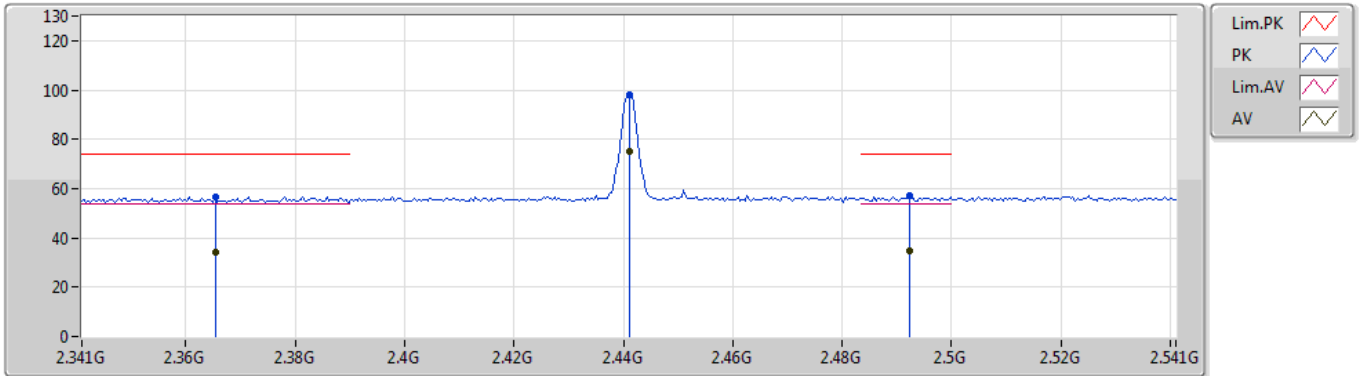


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80302G	26.88	54.00	-27.12	10.22	3	Horizontal	126	1.50	-	16.66	31.10	8.90	29.78
PK	4.8032G	49.38	74.00	-24.62	10.22	3	Horizontal	126	1.50	-	39.16	31.10	8.90	29.78

BT-EDR(3Mbps)

15/07/2019

2441MHz_TX

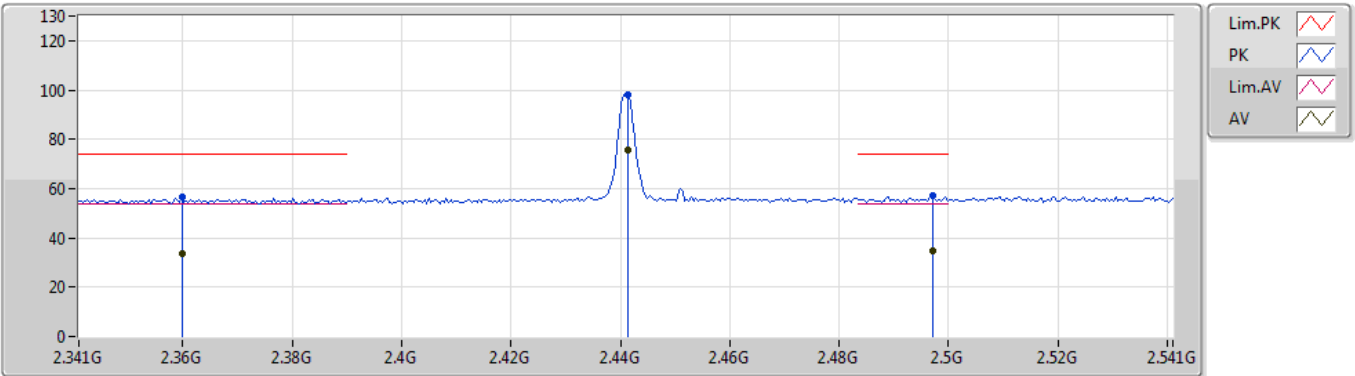


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3654G	34.37	54.00	-19.63	31.99	3	Vertical	316	1.14	-	2.38	27.30	4.69	-
AV	2.441G	75.36	Inf	-Inf	32.30	3	Vertical	316	1.14	-	43.06	27.52	4.78	-
AV	2.4922G	34.56	54.00	-19.44	32.52	3	Vertical	316	1.14	-	2.04	27.68	4.84	-
PK	2.3654G	56.87	74.00	-17.13	31.99	3	Vertical	316	1.14	-	24.88	27.30	4.69	-
PK	2.441G	97.86	Inf	-Inf	32.30	3	Vertical	316	1.14	-	65.56	27.52	4.78	-
PK	2.4922G	57.06	74.00	-16.94	32.52	3	Vertical	316	1.14	-	24.54	27.68	4.84	-

BT-EDR(3Mbps)

15/07/2019

2441MHz_TX

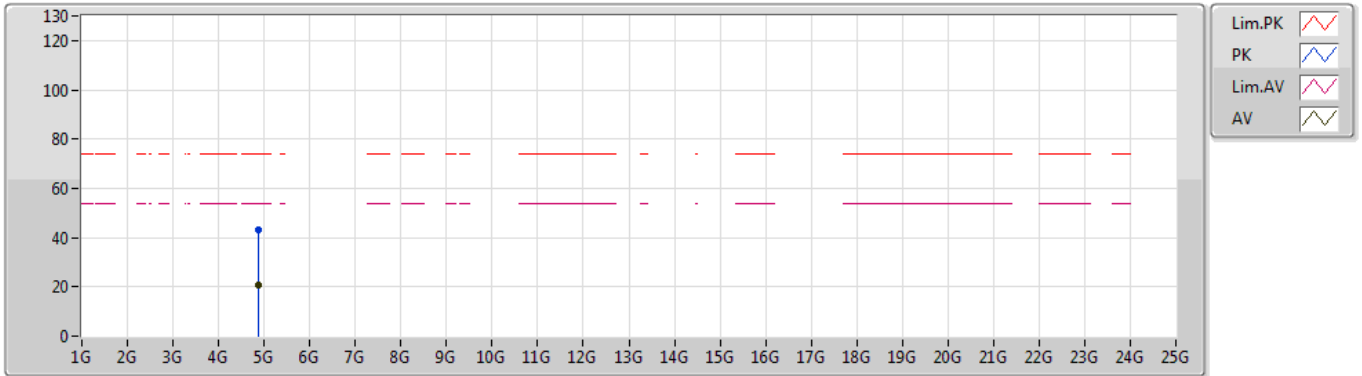


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3598G	33.89	54.00	-20.11	31.96	3	Horizontal	224	1.02	-	1.93	27.28	4.68	-
AV	2.4414G	75.73	Inf	-Inf	32.30	3	Horizontal	224	1.02	-	43.43	27.52	4.78	-
AV	2.497G	34.61	54.00	-19.39	32.53	3	Horizontal	224	1.02	-	2.08	27.69	4.84	-
PK	2.3598G	56.39	74.00	-17.61	31.96	3	Horizontal	224	1.02	-	24.43	27.28	4.68	-
PK	2.4414G	98.23	Inf	-Inf	32.30	3	Horizontal	224	1.02	-	65.93	27.52	4.78	-
PK	2.497G	57.11	74.00	-16.89	32.53	3	Horizontal	224	1.02	-	24.58	27.69	4.84	-

BT-EDR(3Mbps)

15/07/2019

2441MHz_TX

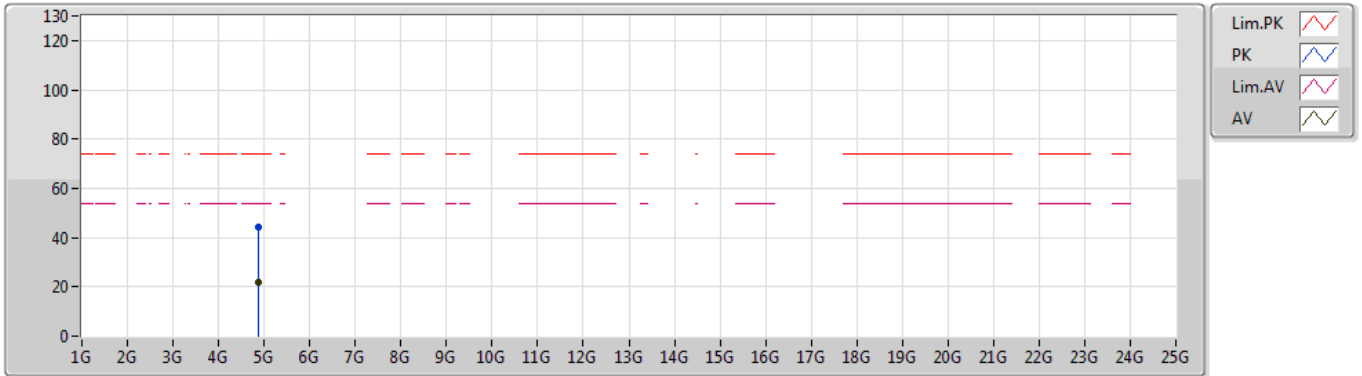


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88161G	20.66	54.00	-33.34	3.83	3	Vertical	333	1.62	-	16.83	31.49	6.81	34.47
PK	4.88161G	43.16	74.00	-30.84	3.83	3	Vertical	333	1.62	-	39.33	31.49	6.81	34.47

BT-EDR(3Mbps)

15/07/2019

2441MHz_TX

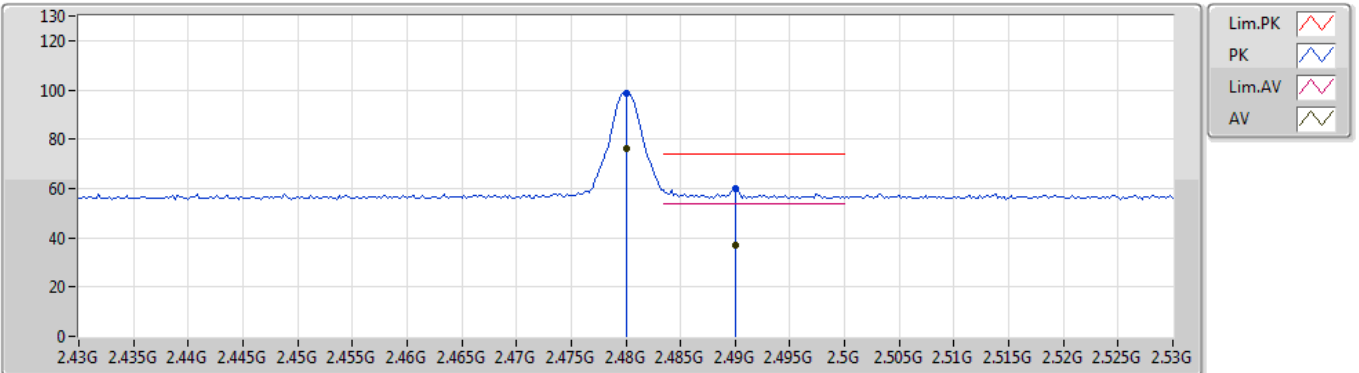


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88238G	21.92	54.00	-32.08	3.83	3	Horizontal	38	2.33	-	18.09	31.49	6.81	34.47
PK	4.88238G	44.42	74.00	-29.58	3.83	3	Horizontal	38	2.33	-	40.59	31.49	6.81	34.47

BT-EDR(3Mbps)

15/07/2019

2480MHz_TX

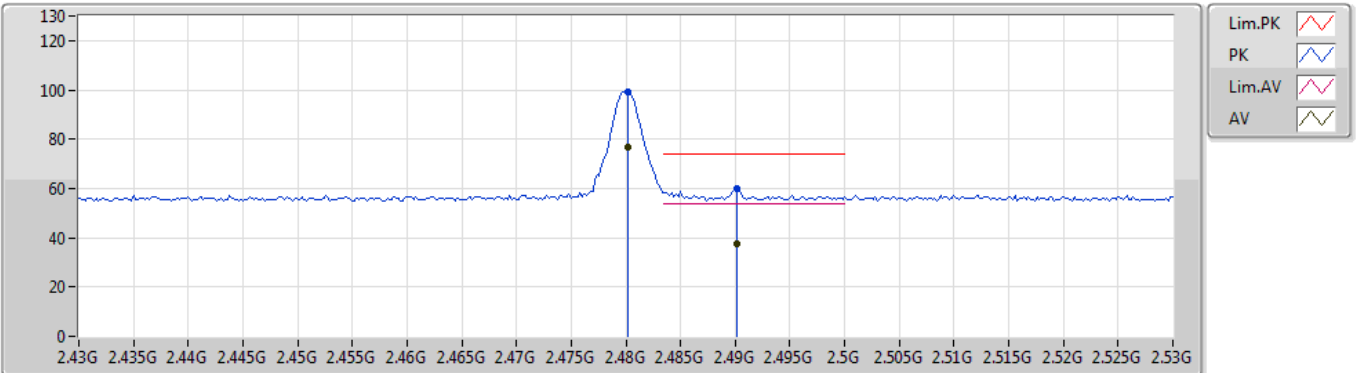


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	76.11	Inf	-Inf	32.46	3	Vertical	313	1.13	-	43.65	27.64	4.82	-
AV	2.49G	37.25	54.00	-16.75	32.51	3	Vertical	313	1.13	-	4.74	27.67	4.84	-
PK	2.48G	98.61	Inf	-Inf	32.46	3	Vertical	313	1.13	-	66.15	27.64	4.82	-
PK	2.49G	59.75	74.00	-14.25	32.51	3	Vertical	313	1.13	-	27.24	27.67	4.84	-

BT-EDR(3Mbps)

15/07/2019

2480MHz_TX

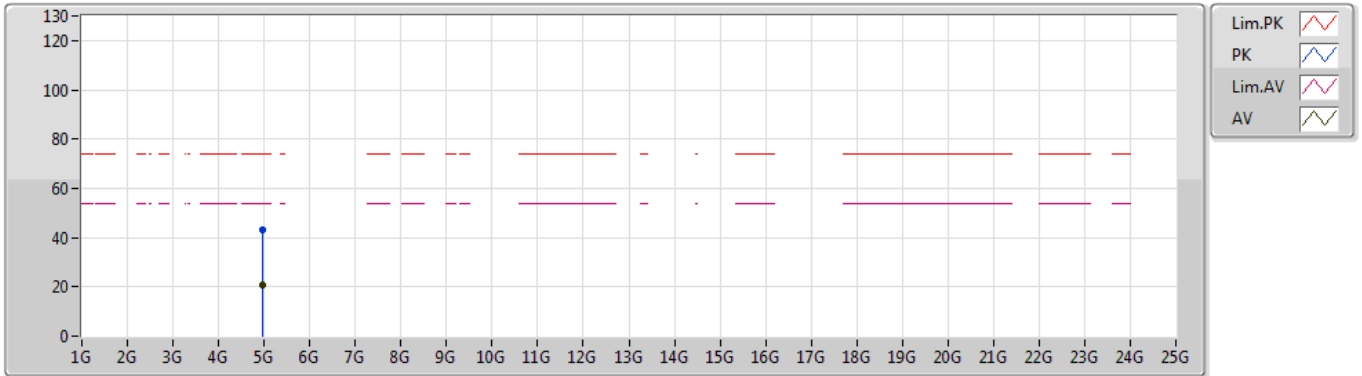


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4802G	76.69	Inf	-Inf	32.46	3	Horizontal	228	2.56	-	44.23	27.64	4.82	-
AV	2.4902G	37.41	54.00	-16.59	32.51	3	Horizontal	228	2.56	-	4.90	27.67	4.84	-
PK	2.4802G	99.19	Inf	-Inf	32.46	3	Horizontal	228	2.56	-	66.73	27.64	4.82	-
PK	2.4902G	59.91	74.00	-14.09	32.51	3	Horizontal	228	2.56	-	27.40	27.67	4.84	-

BT-EDR(3Mbps)

15/07/2019

2480MHz_TX

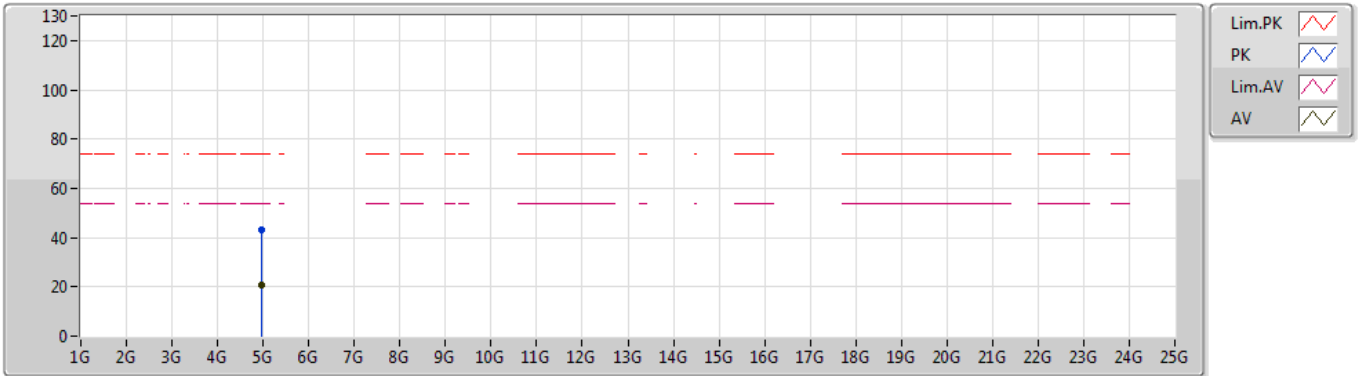


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95862G	20.88	54.00	-33.12	4.02	3	Horizontal	343	1.50	-	16.86	31.63	6.83	34.44
PK	4.95862G	43.38	74.00	-30.62	4.02	3	Horizontal	343	1.50	-	39.36	31.63	6.83	34.44

BT-EDR(3Mbps)

15/07/2019

2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95848G	20.58	54.00	-33.42	4.02	3	Horizontal	36	2.41	-	16.56	31.63	6.83	34.44
PK	4.95848G	43.08	74.00	-30.92	4.02	3	Horizontal	36	2.41	-	39.06	31.63	6.83	34.44