

NCC Test Report

Equipment : Bluetooth Headset 藍芽耳機
Brand Name : AVAYA
Model Name : L159
Applicant : 美商亞美亞亞太股份有限公司台灣分公司
臺北市松山區民生東路 3 段 109 號 12 樓
Manufacturer : Avaya Inc.
4655 Great America Parkway, Santa
Clara, CA 95054
Standard : LP0002 Section 3.10 (2018-01-10)

The product was received on Feb. 27, 2019, and testing was started from Jun. 07, 2019 and completed on Jun. 10, 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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TEL : 886-3-327-3456
FAX : 886-3-327-0973
Report Template No.: HE1-C9 Ver3.4

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	3.10.1.4	Antenna Requirement	PASS	LP0002-2.2
3.1	2.3	AC Power-line Conducted Emissions	PASS	LP0002-2.3
3.2	3.10.1.6	20dB Bandwidth	PASS	3.10.1.6
3.2	3.10.1.6	Carrier Frequency Separation	PASS	3.10.1.6
3.3	3.10.1.2	Maximum Conducted Output Power	PASS	3.10.1.2
3.4	3.10.1.6	Number of Hopping Frequencies and Hopping Bandedge	PASS	3.10.1.6
3.5	3.10.1.6	Time of Occupancy (Dwell Time)	PASS	3.10.1.6
3.6	3.10.1.5	Emissions in Non-restricted Frequency Bands	PASS	3.10.1.5
3.7	3.10.1.5	Emissions in Restricted Frequency Bands	PASS	Restricted Bands: LP0002-2.8
3.8	2.11	Receiver Radiated Unwanted Emissions	PASS	Restricted Bands: LP0002-2.8

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: Kate Lo

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	-	-	PCB	N/A	-1

Note 1: The EUT has only one antenna.

For BT function:

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

Ant. 1 could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter		
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)	0.773	1.12	2.899m	1k
BT-EDR(2Mbps)	0.776	1.1	2.908m	1k
BT-EDR(3Mbps)	0.776	1.1	2.908m	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:

- ♦ LP0002 (2018-01-10)
- ♦ KDB 558074 D01 v05r01
- ♦ 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
☐	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 Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO01-HY	Edward	23.5~26.0°C / 55.3%~63.1%	07/Jun/2019
RF Conducted	TH01-HY	Barry	24.6~25.8°C / 55~59%	10/Jun/2019
Radiated	03CH01-HY	Edward	25.2~28.3°C / 54.4~64.8%	07/Jun/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	5V

2.2 Test Channel Mode

Test Software Version	Blue Test 3
-----------------------	-------------

Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	14
2441MHz	0
2480MHz	0
BT-EDR(2Mbps)	-
2402MHz	44
2441MHz	27
2480MHz	15
BT-EDR(3Mbps)	-
2402MHz	44
2441MHz	27
2480MHz	16

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/CRX
1	AC Adapter

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 Receiver Radiated Unwanted Emissions		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX/CRX		
1	AC Adapter		
Operating Mode > 1GHz	CTX/CRX		
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 Support Equipment

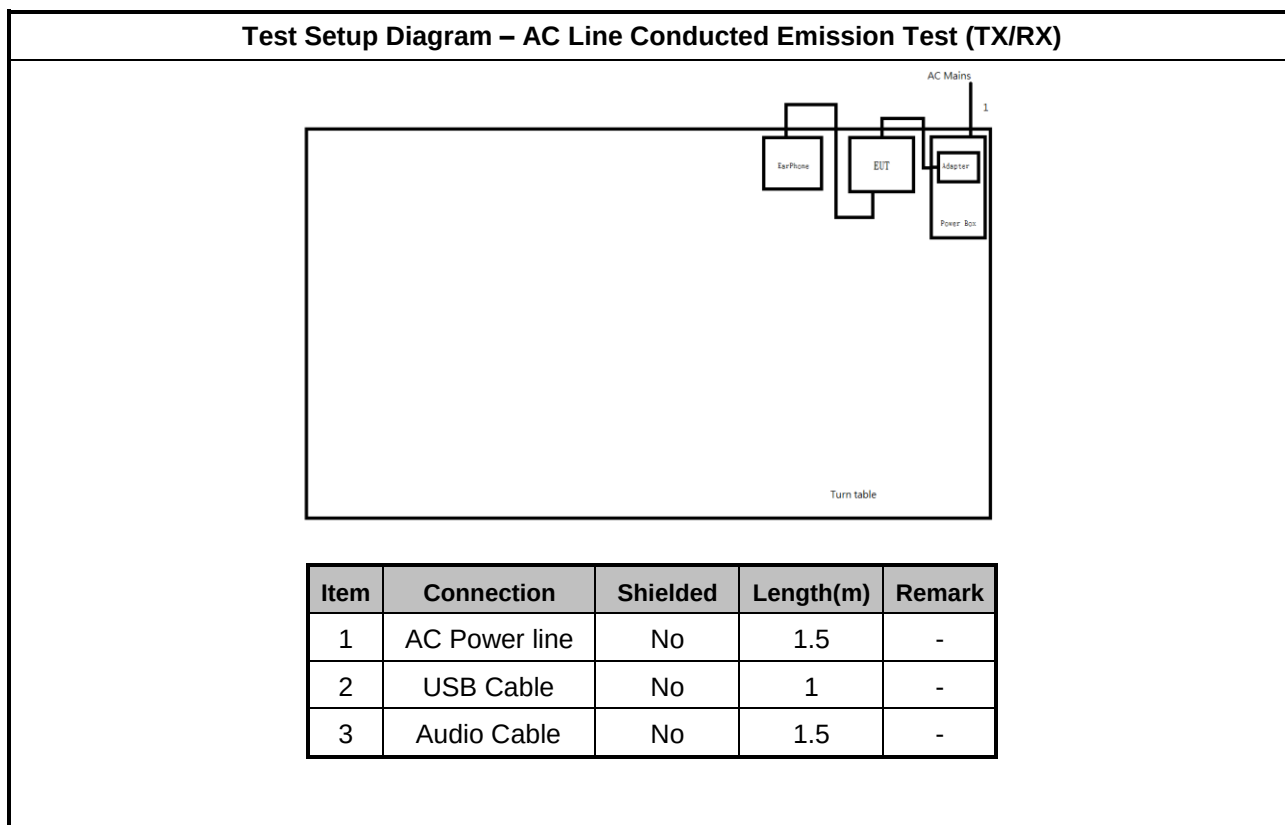
Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Adapter	SONY	AC0401TW	-

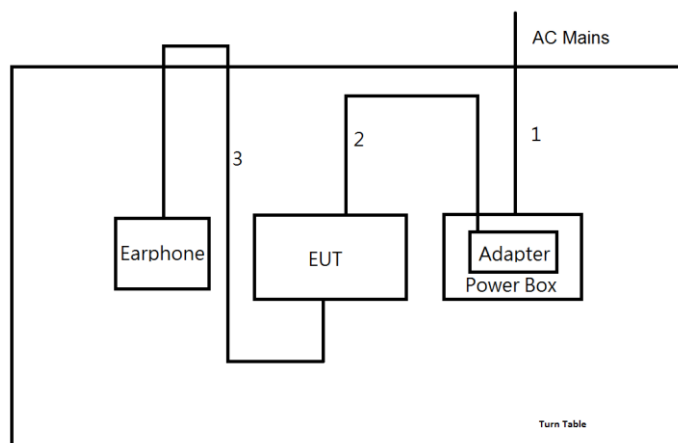
Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	R33002
2	Adapter for NB	DELL	HA65NM130	R35737
3	Fixture	-	-	-

Note: Support equipment No.3 was provided by customer.

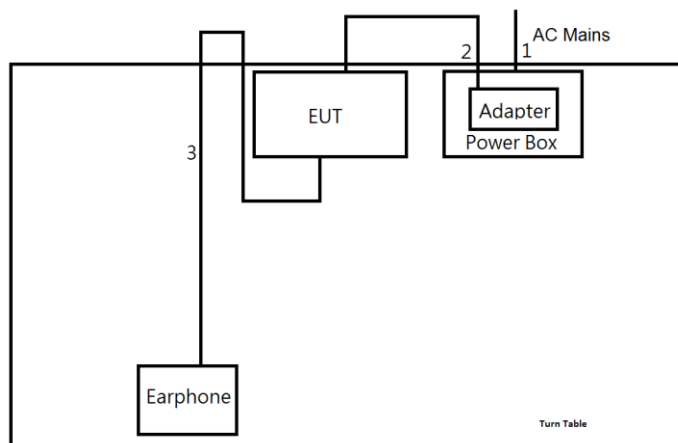
Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Adapter	SONY	AC0401TW	-

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz (TX)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.5	-
2	USB Cable	No	1	-
3	Audio Cable	No	1.5	-

Test Setup Diagram - Radiated Test < 1GHz (RX)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.5	-
2	USB Cable	No	1	-
3	Audio Cable	No	1.5	-

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.

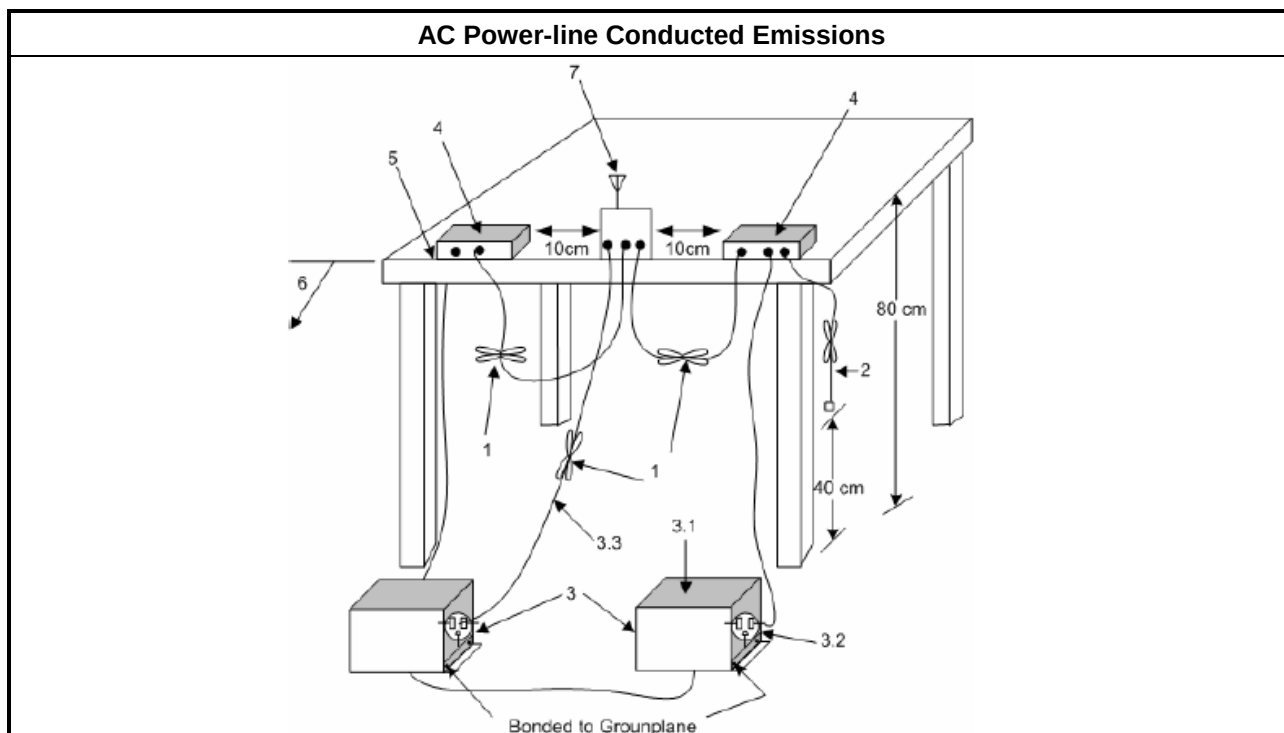
3.1.2 Measuring Instruments

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 (20 dB bandwidth, 25 kHz); 20 dB bandwidth $\leq$ 250 kHz.
	$75 > N \geq 15$ and ChS $\geq$ MAX (20 dB bandwidth, 25 kHz); 20 dB bandwidth $>$ 250 kHz.
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

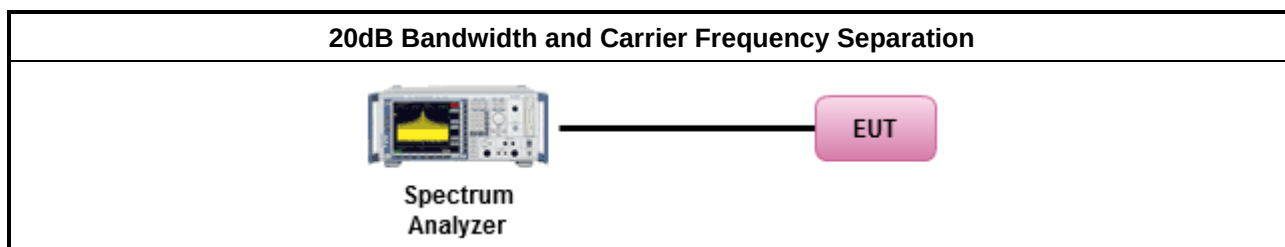
3.2.2 Measuring Instruments

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	

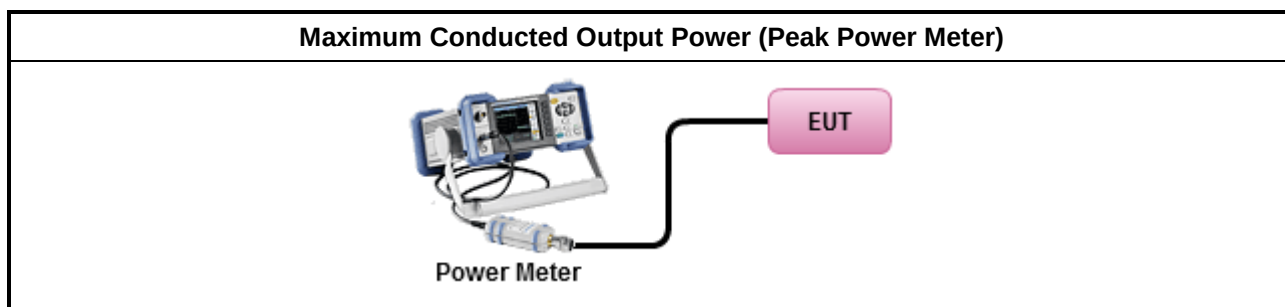
3.3.2 Measuring Instruments

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

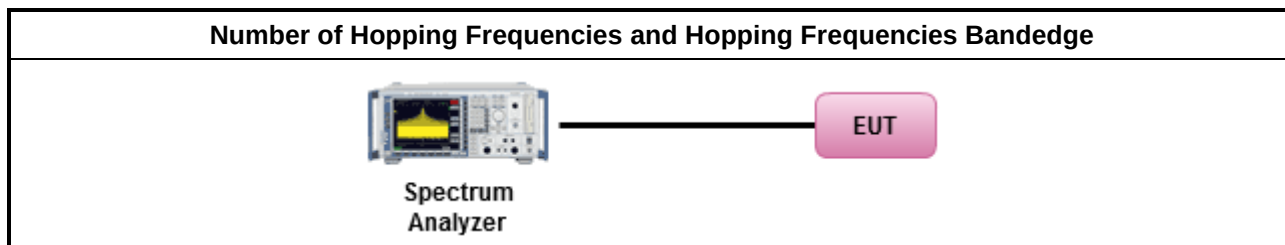
3.4.3 Measuring Instruments

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	

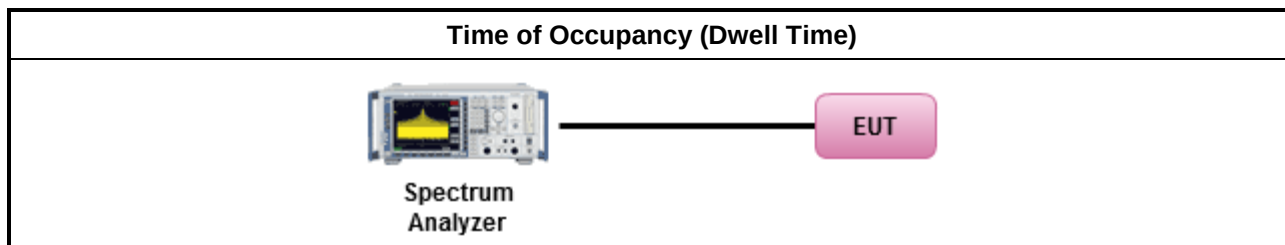
3.5.2 Measuring Instruments

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.	

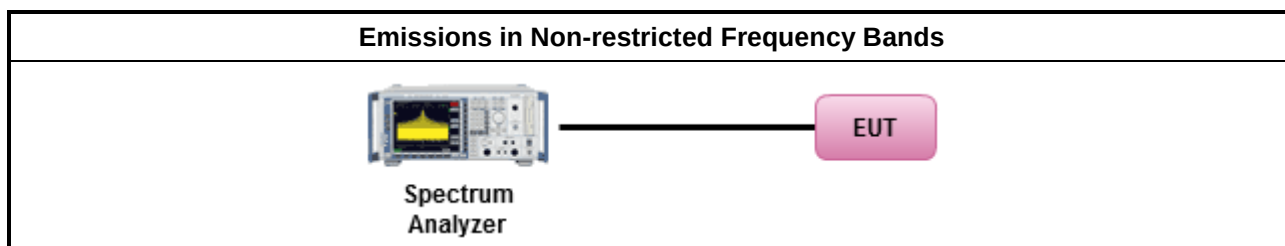
3.6.2 Measuring Instruments

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.

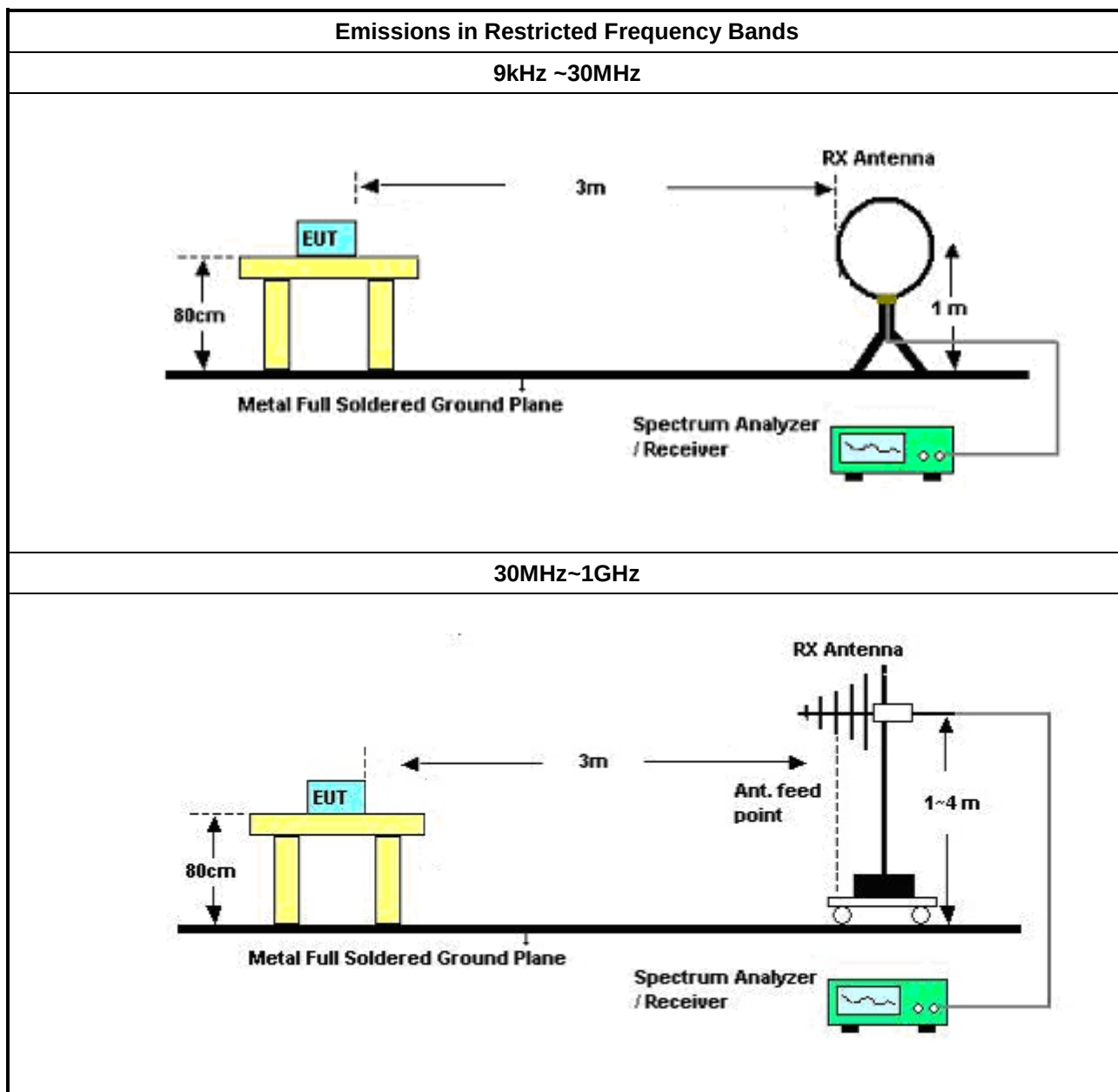
3.7.2 Measuring Instruments

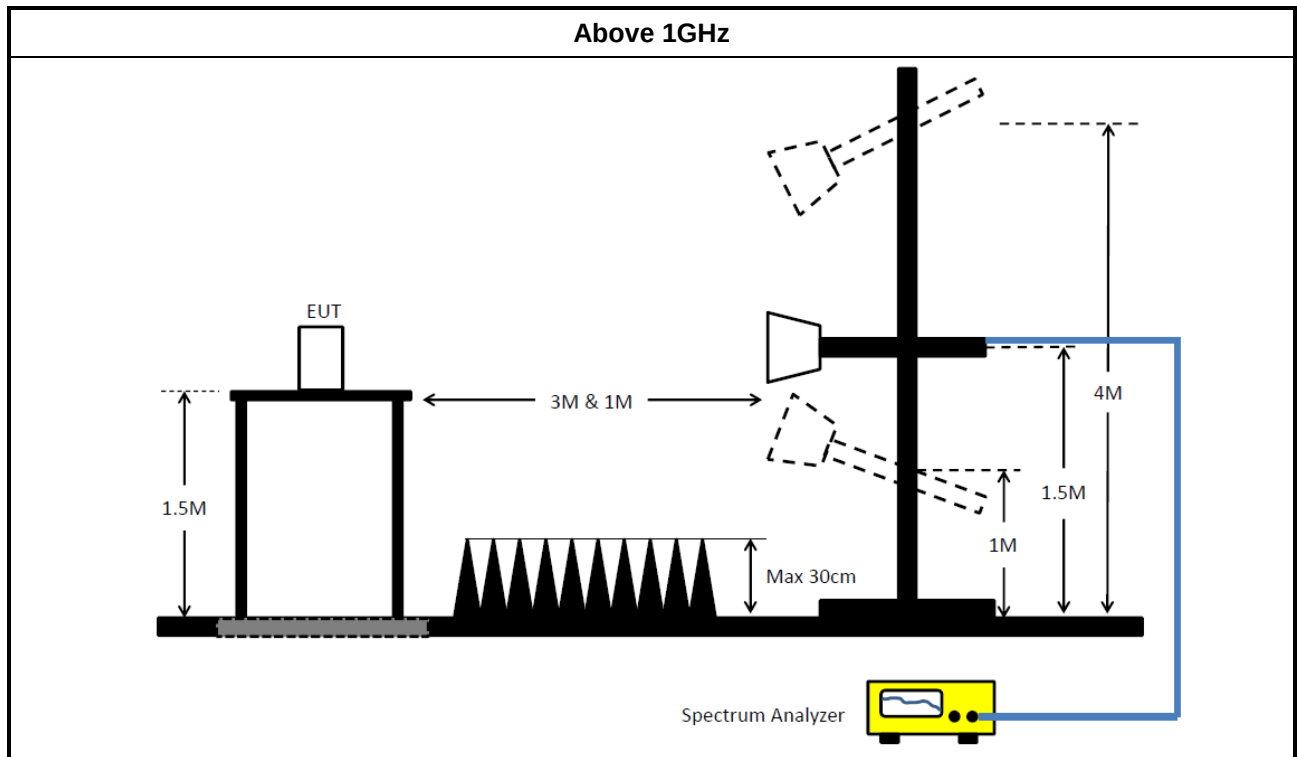
Refer a test equipment and calibration data table in this test report.

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

3.8 Receiver Radiated Spurious Emissions

3.8.1 Receiver in Radiated Spurious Emissions Limit

Restricted Spurious 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.

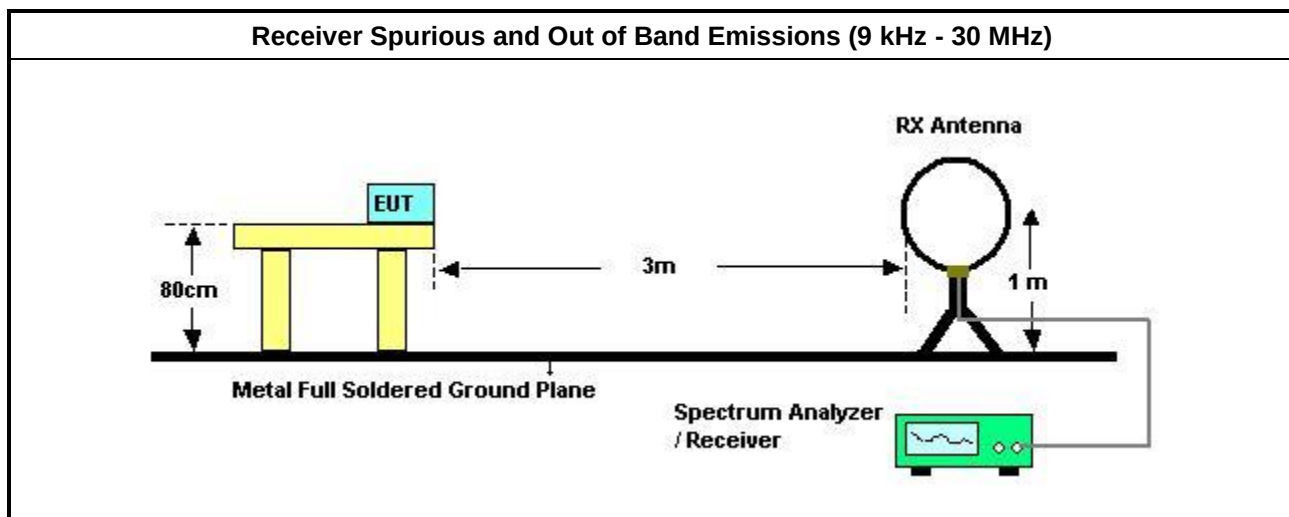
3.8.2 Measuring Instruments

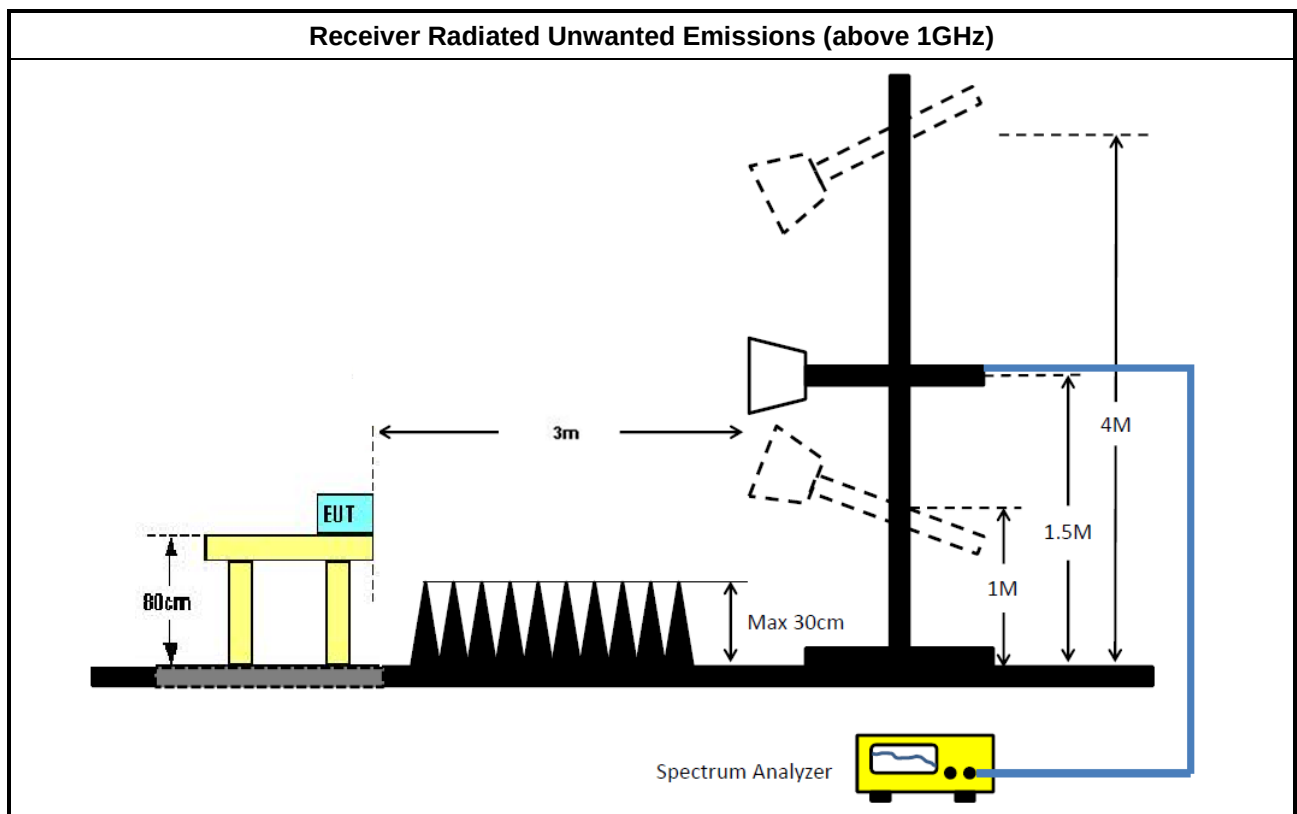
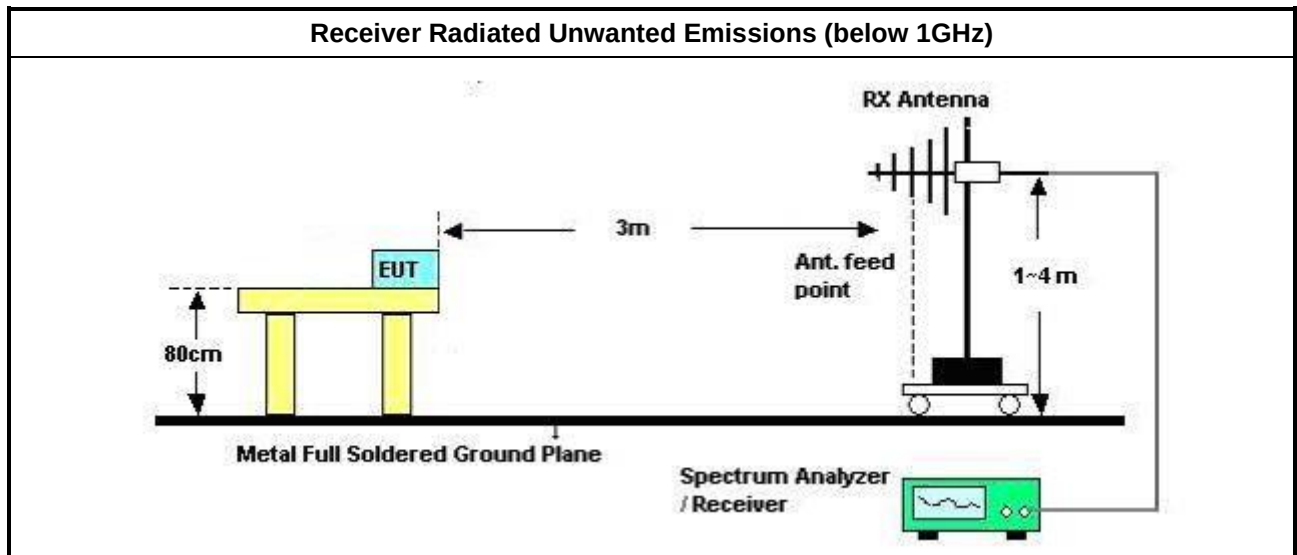
Refer a test equipment and calibration data table in this test report.

3.8.3 Test Procedures

Test Method	
☒	The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is higher, to at least 3 times the highest tuneable or local oscillator frequency, whichever is higher, without exceeding 40 GHz.
☒	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).
☒	For radiated measurement, refer as ANSI C63.4, clause 8.3.
☒	Refer as ANSI C63.4, clause 8.3.1.1 and 8.3.2.1 for radiated emissions from below 30 MHz.
☒	Refer as ANSI C63.4, clause 8.3.1.1 and 8.3.2.1 for radiated emissions from 30 MHz-1 GHz. For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the QP-Limit so that the QP level does not need to be reported in addition.
☒	Refer as ANSI C63.4, clause 8.3.1.2 and 8.3.2.2 for radiated emissions from above 1 GHz. For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
☒	All amplitude of spurious emissions that are attenuated by more than 30 dB below the permissible value has no need to be reported.

3.8.4 Test Setup





3.8.5 Receiver Radiated Unwanted Emissions (Below 30MHz)

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

3.8.6 Test Result of Receiver Radiated Unwanted Emissions

Refer as Appendix H

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	ENV 216	101274	9kHz~30MHz	12/Jun/2018	11/Jun/2019
RF Cable-CON	MTJ	RG142	CB001-CO	9kHz~30MHz	17/Sep/2018	16/Sep/2019
AC POWER	APC	AFC-11003G	F308010045	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561F	9495	9kHz~30MHz	11/Oct/2018	10/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	101029	10Hz~40GHz	11/Sep/2018	10/Sep/2019
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~1G	21/Mar/2019	20/Mar/2020
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	1G~18G	21/Mar/2019	20/Mar/2020
Cable 0.5m	HUBER	MY10714/4	RF Cable - 05	30MHz~1G	21/Mar/2019	20/Mar/2020

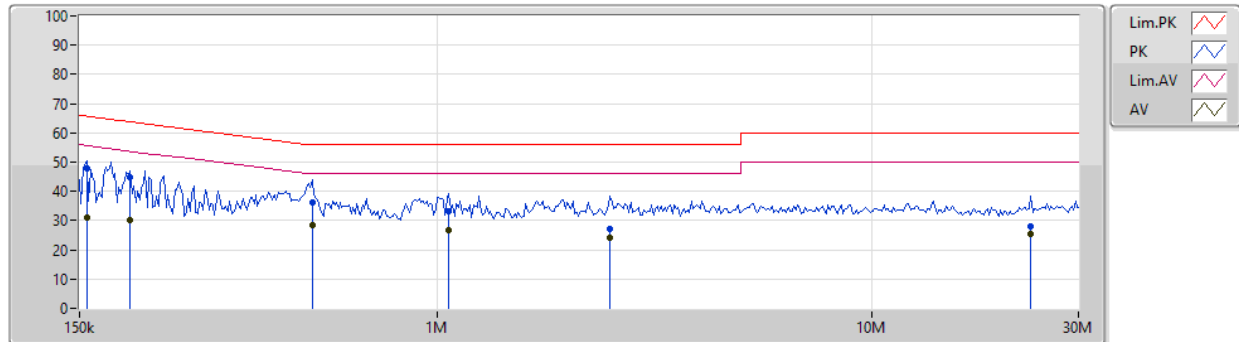
Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	Riken	SAC-3M	03CH01-HY	30MHz~1GHz 3m	11/Jan/2019	10/Jan/2020
3m Semi Anechoic Chamber	Riken	SAC-3M	03CH01-HY	1GHz~18GHz 3m	09/Jan/2019	08/Jan/2020
PreAmplifier	COM-POWER	PA-103	161050	1MHz~1.0GHz	24/Jul/2018	23/Jul/2019
Microwave Preamp	Agilent	8449B	3008A02602	1GHz~26.5GHz	27/Mar/2019	26/Mar/2020
Spectrum Analyzer	R&S	FSV40	101407	10Hz~40GHz	16/Aug/2018	15/Aug/2019
RF Cable-R03m	Jye Bao	RG142	CB019	9kHz~1GHz	14/Dec/2018	13/Dec/2019
RF Cable-high	SUHNER	SUCOFLEX 104	SN805196/4+MY39495	1GHz~18 GHz	13/Mar/2019	12/Mar/2020
Bilog Antenna & 5db Attenuator	SCHAFFNER/MTJ	CBL6112D / MTJ6102-05	2678 / 001	30MHz~2GHz	07/Jul/2018	06/Jul/2019
EMI Test Receiver	R&S	ESU-26	100422	20Hz~26.5GHz	25/Oct/2018	24/Oct/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k~30MHz	15/Mar/2019	14/Mar/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170339	18GHz~40GHz	19/Apr/2019	18/Apr/2020
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D-1130	1GHz~18GHz	26/Oct/2018	25/Oct/2019

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	PoE Mode (TX)		

07/06/2019

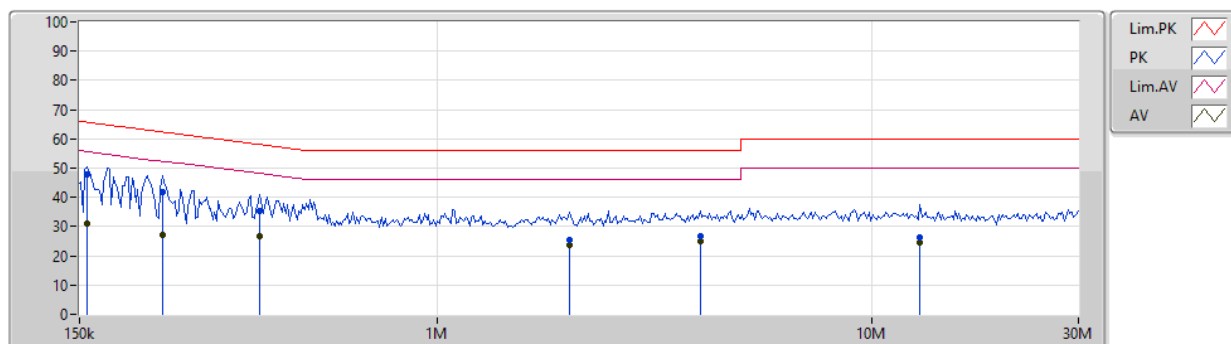


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	156.091k	47.69	65.67	-17.98	19.52	Neutral	-	28.17	9.65	0.01	9.86			
AV	156.091k	31.14	55.67	-24.53	19.52	Neutral	-	11.62	9.65	0.01	9.86			
QP	196.231k	44.91	63.76	-18.85	19.51	Neutral	-	25.40	9.64	0.01	9.86			
AV	196.231k	29.98	53.76	-23.78	19.51	Neutral	-	10.47	9.64	0.01	9.86			
QP	515.159k	36.16	56.00	-19.84	19.51	Neutral	-	16.65	9.64	0.01	9.86			
AV	515.159k	28.29	46.00	-17.71	19.51	Neutral	"Worst"	8.78	9.64	0.01	9.86			
QP	1.065M	33.07	56.00	-22.93	19.52	Neutral	-	13.55	9.64	0.02	9.86			
AV	1.065M	26.58	46.00	-19.42	19.52	Neutral	-	7.06	9.64	0.02	9.86			
QP	2.506M	27.26	56.00	-28.74	19.56	Neutral	-	7.70	9.65	0.04	9.87			
AV	2.506M	24.23	46.00	-21.77	19.56	Neutral	-	4.67	9.65	0.04	9.87			
QP	23.282M	27.91	60.00	-32.09	19.79	Neutral	-	8.12	9.70	0.12	9.97			
AV	23.282M	25.54	50.00	-24.46	19.79	Neutral	-	5.75	9.70	0.12	9.97			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	PoE Mode (TX)		

07/06/2019

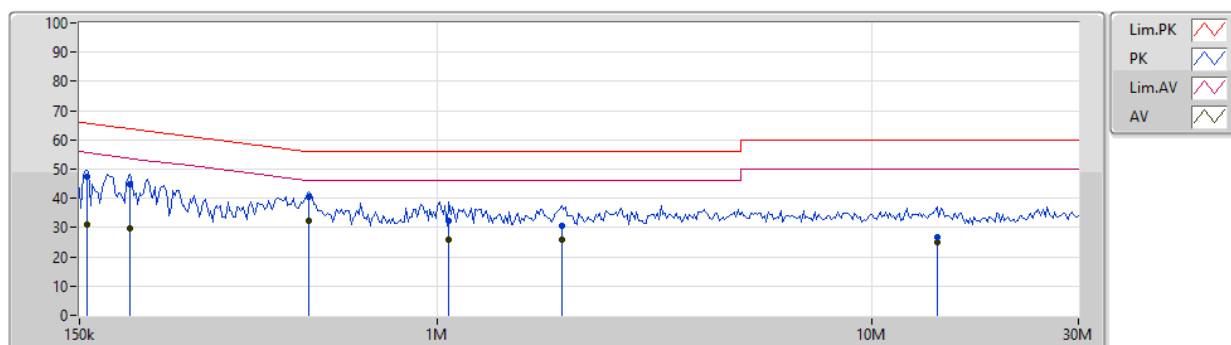


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	156.091k	47.88	65.67	-17.79	19.48	Line	"Worst"	28.40	9.61	0.01	9.86			
AV	156.091k	30.92	55.67	-24.75	19.48	Line	-	11.44	9.61	0.01	9.86			
QP	232.398k	41.84	62.37	-20.53	19.48	Line	-	22.36	9.61	0.01	9.86			
AV	232.398k	27.22	52.37	-25.15	19.48	Line	-	7.74	9.61	0.01	9.86			
QP	389.891k	35.19	58.07	-22.88	19.48	Line	-	15.71	9.61	0.01	9.86			
AV	389.891k	26.91	48.07	-21.16	19.48	Line	-	7.43	9.61	0.01	9.86			
QP	2.014M	25.37	56.00	-30.63	19.52	Line	-	5.85	9.62	0.03	9.87			
AV	2.014M	23.50	46.00	-22.50	19.52	Line	-	3.98	9.62	0.03	9.87			
QP	4.041M	26.56	56.00	-29.44	19.56	Line	-	7.00	9.63	0.05	9.88			
AV	4.041M	24.90	46.00	-21.10	19.56	Line	-	5.34	9.63	0.05	9.88			
QP	12.944M	26.47	60.00	-33.53	19.66	Line	-	6.81	9.65	0.08	9.93			
AV	12.944M	24.75	50.00	-25.25	19.66	Line	-	5.09	9.65	0.08	9.93			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	PoE Mode (RX)		

07/06/2019

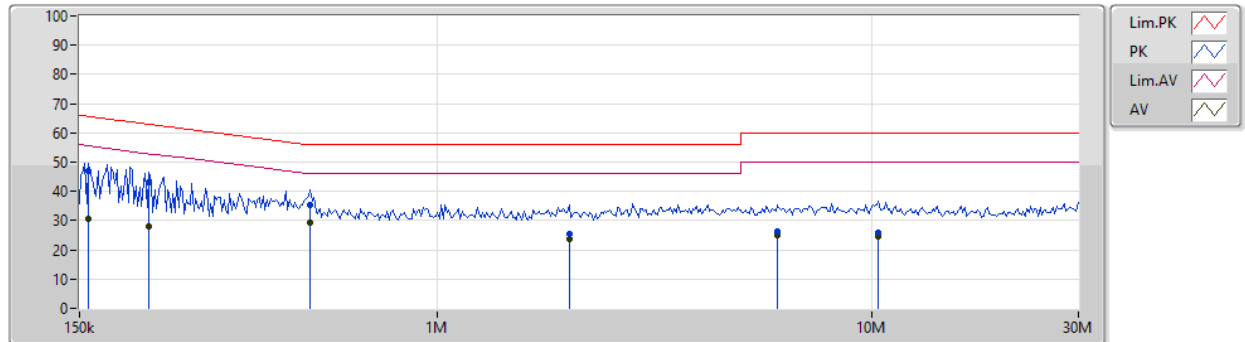


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	156.091k	47.32	65.67	-18.35	19.52	Neutral	-	27.80	9.65	0.01	9.86			
AV	156.091k	30.90	55.67	-24.77	19.52	Neutral	-	11.38	9.65	0.01	9.86			
QP	196.231k	44.70	63.76	-19.06	19.51	Neutral	-	25.19	9.64	0.01	9.86			
AV	196.231k	29.90	53.76	-23.86	19.51	Neutral	-	10.39	9.64	0.01	9.86			
QP	505.009k	40.32	56.00	-15.68	19.51	Neutral	-	20.81	9.64	0.01	9.86			
AV	505.009k	32.36	46.00	-13.64	19.51	Neutral	"Worst"	12.85	9.64	0.01	9.86			
QP	1.065M	32.54	56.00	-23.46	19.52	Neutral	-	13.02	9.64	0.02	9.86			
AV	1.065M	26.07	46.00	-19.93	19.52	Neutral	-	6.55	9.64	0.02	9.86			
QP	1.935M	30.63	56.00	-25.37	19.55	Neutral	-	11.08	9.65	0.03	9.87			
AV	1.935M	25.88	46.00	-20.12	19.55	Neutral	-	6.33	9.65	0.03	9.87			
QP	14.157M	26.70	60.00	-33.30	19.73	Neutral	-	6.97	9.71	0.09	9.93			
AV	14.157M	24.82	50.00	-25.18	19.73	Neutral	-	5.09	9.71	0.09	9.93			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	PoE Mode (RX)		

07/06/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	157.652k	46.85	65.58	-18.73	19.48	Line	-	27.37	9.61	0.01	9.86			
AV	157.652k	30.81	55.58	-24.77	19.48	Line	-	11.33	9.61	0.01	9.86			
QP	216.761k	43.26	62.94	-19.68	19.48	Line	-	23.78	9.61	0.01	9.86			
AV	216.761k	27.90	52.94	-25.04	19.48	Line	-	8.42	9.61	0.01	9.86			
QP	510.059k	35.56	56.00	-20.44	19.48	Line	-	16.08	9.61	0.01	9.86			
AV	510.059k	29.24	46.00	-16.76	19.48	Line	"Worst"	9.76	9.61	0.01	9.86			
QP	2.014M	25.48	56.00	-30.52	19.52	Line	-	5.96	9.62	0.03	9.87			
AV	2.014M	23.73	46.00	-22.27	19.52	Line	-	4.21	9.62	0.03	9.87			
QP	6.076M	26.33	60.00	-33.67	19.59	Line	-	6.74	9.64	0.06	9.89			
AV	6.076M	24.91	50.00	-25.09	19.59	Line	-	5.32	9.64	0.06	9.89			
QP	10.399M	26.01	60.00	-33.99	19.63	Line	-	6.38	9.66	0.07	9.90			
AV	10.399M	24.73	50.00	-25.27	19.63	Line	-	5.10	9.66	0.07	9.90			

**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	875.812k	876KF1D	920k	870.815k
BT-EDR(2Mbps)	1.339M	1.266M	1M27G1D	1.314M	1.192M
BT-EDR(3Mbps)	1.294M	1.249M	1M25G1D	1.26M	1.197M

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

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

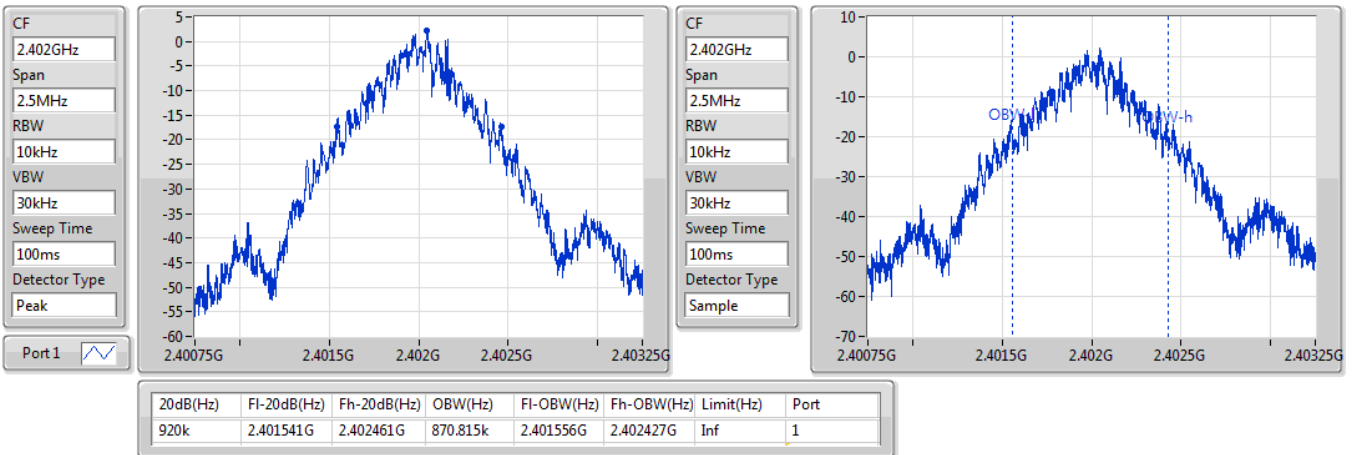
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	920k	870.815k
2441MHz	Pass	Inf	920k	872.064k
2480MHz	Pass	Inf	920k	875.812k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.314M	1.192M
2441MHz	Pass	Inf	1.316M	1.206M
2480MHz	Pass	Inf	1.339M	1.266M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.26M	1.197M
2441MHz	Pass	Inf	1.266M	1.216M
2480MHz	Pass	Inf	1.294M	1.249M

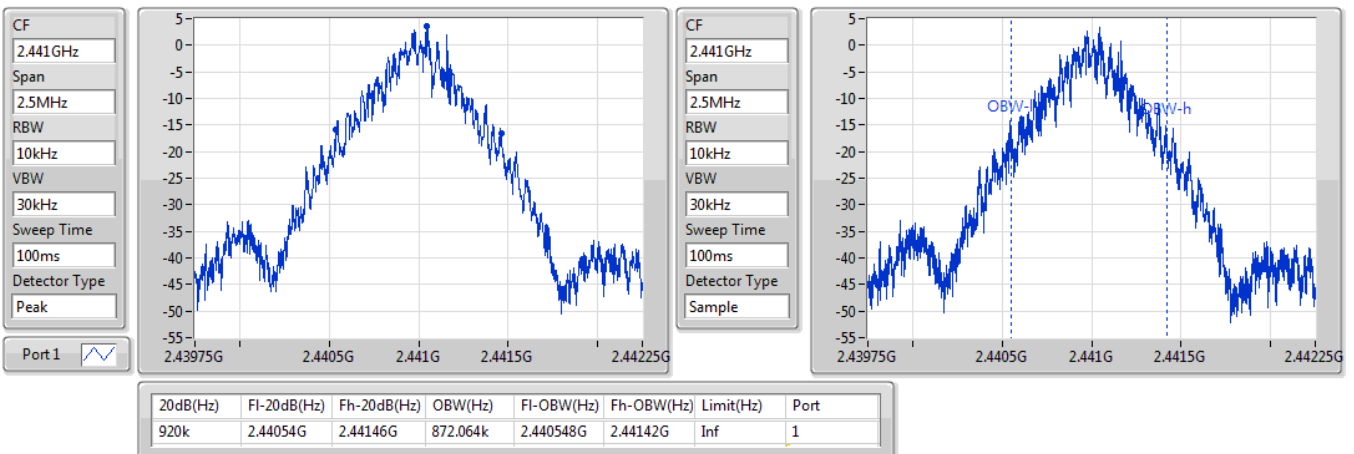
Port X-N dB = Port X 20dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

BT-BR(1Mbps)
2402MHz
EBW

10/06/2019

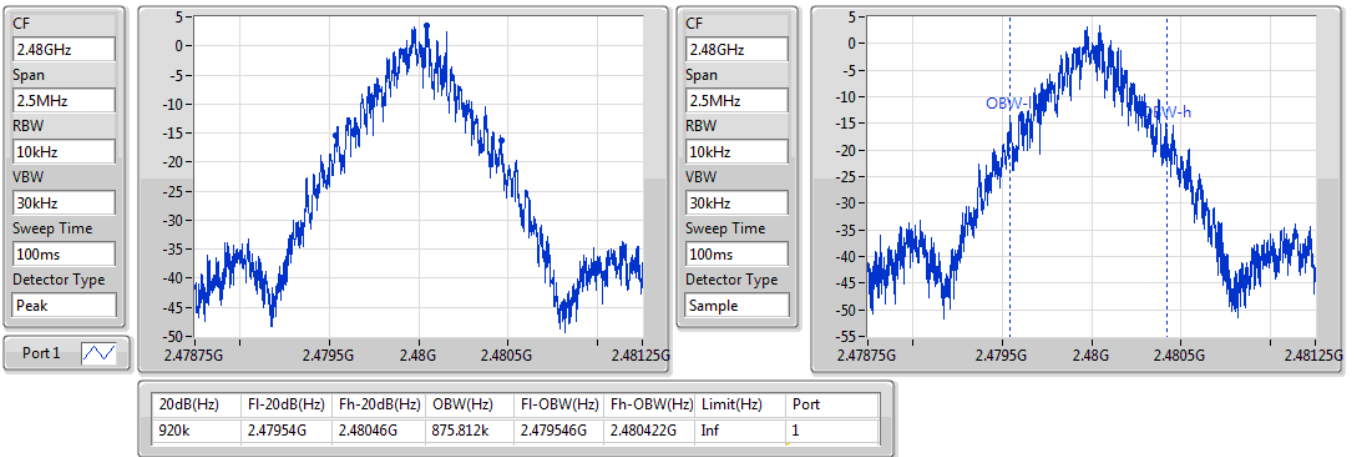

BT-BR(1Mbps)
2441MHz
EBW

10/06/2019

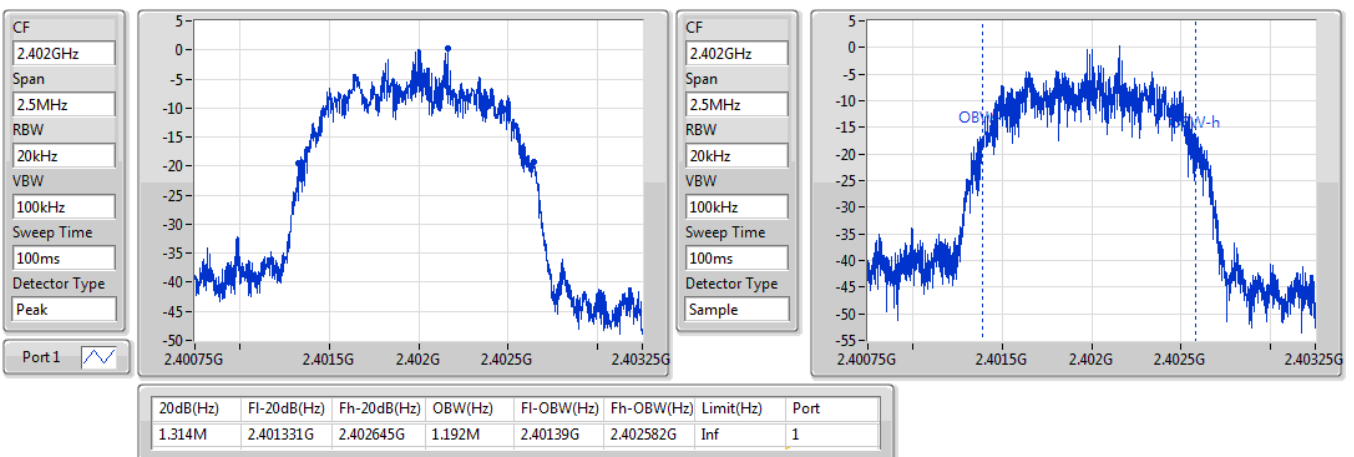


BT-BR(1Mbps)
EBW
2480MHz

10/06/2019

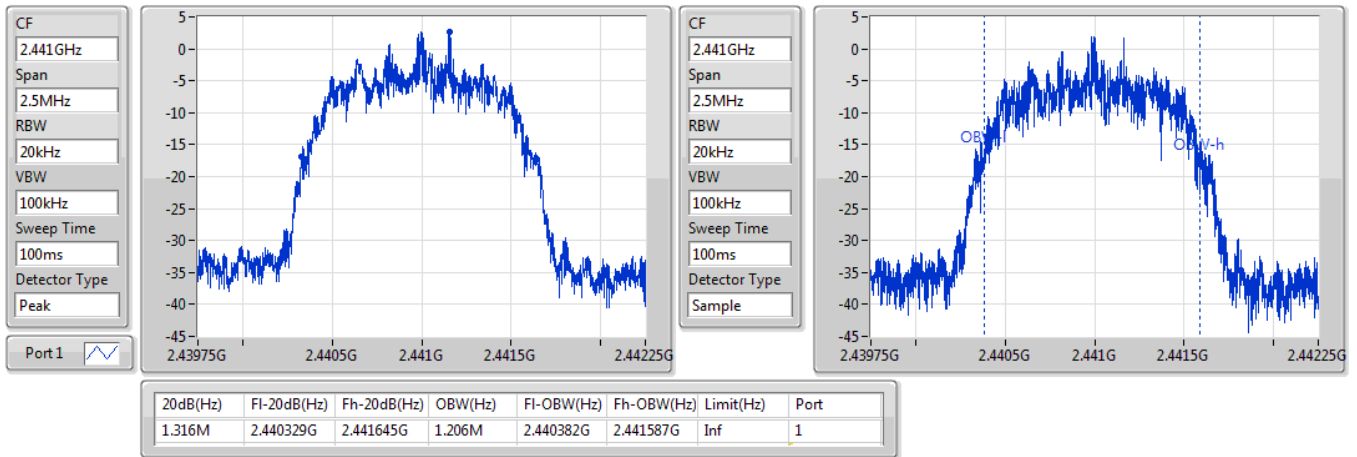

BT-EDR(2Mbps)
EBW
2402MHz

10/06/2019

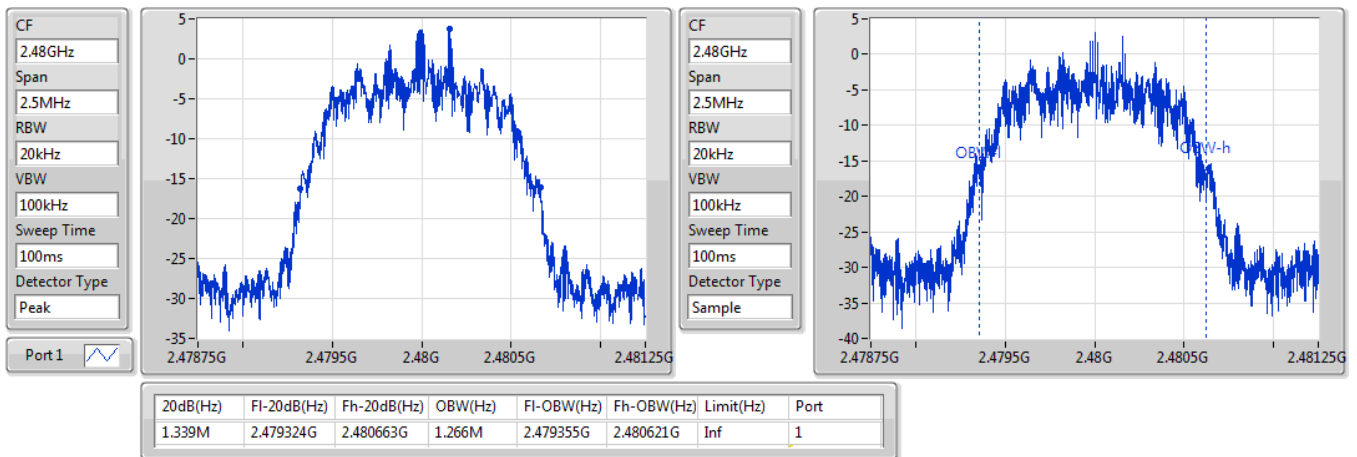


BT-EDR(2Mbps)
EBW
2441MHz

10/06/2019

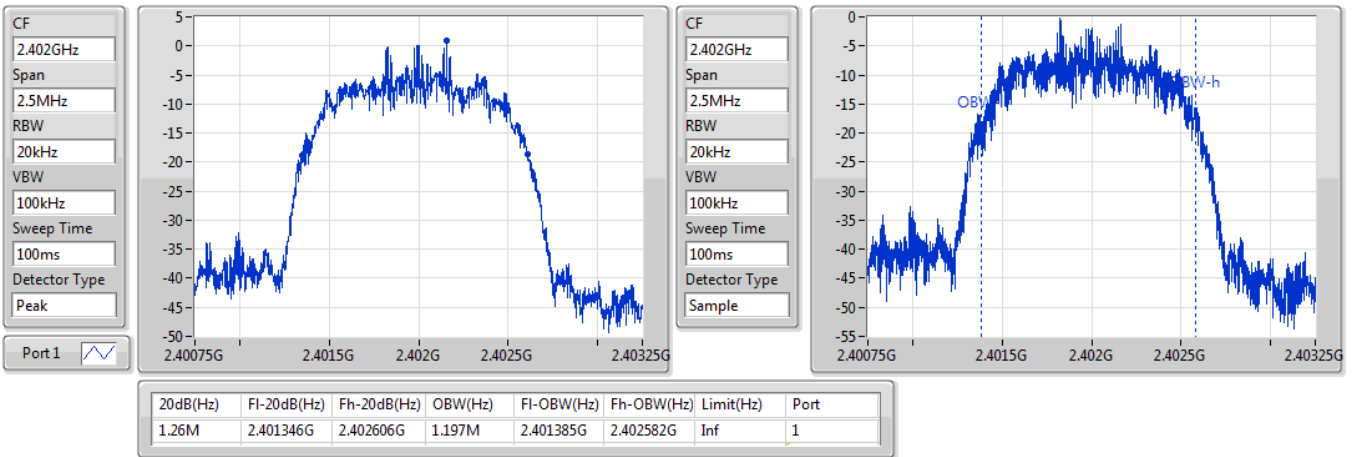

BT-EDR(2Mbps)
EBW
2480MHz

10/06/2019

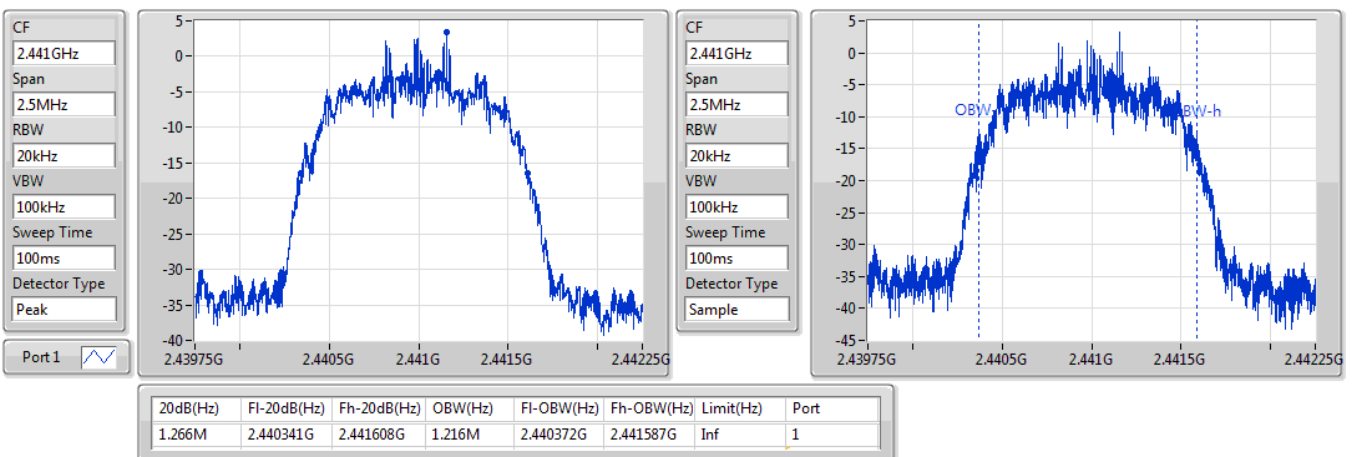


BT-EDR(3Mbps)
EBW
2402MHz

10/06/2019


BT-EDR(3Mbps)
EBW
2441MHz

10/06/2019

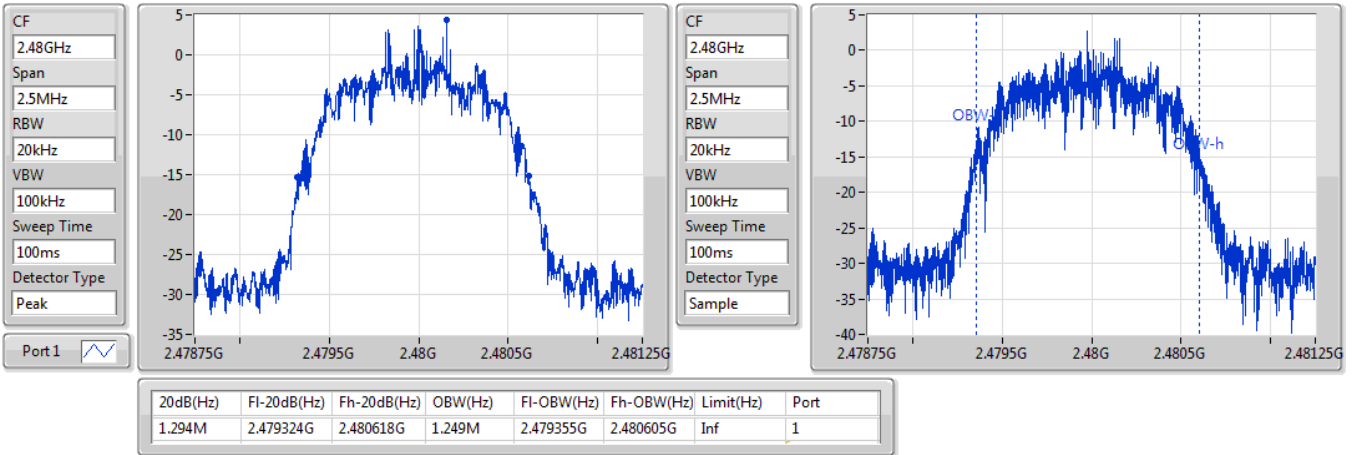


BT-EDR(3Mbps)

2480MHz

EBW

10/06/2019





Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.005M	996k
BT-EDR(2Mbps)	1.0005M	997.5k
BT-EDR(3Mbps)	1.0005M	999k

Result

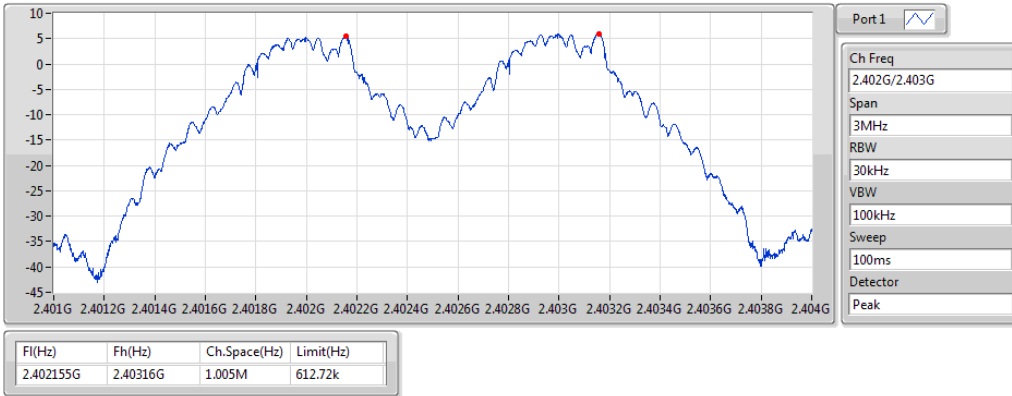
Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.402155G	2.40316G	1.005M	612.72k
2441MHz	Pass	2.441155G	2.442153G	997.5k	612.72k
2480MHz	Pass	2.478995G	2.479991G	996k	612.72k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.401998G	2.402995G	997.5k	875.124k
2441MHz	Pass	2.440998G	2.441995G	997.5k	876.456k
2480MHz	Pass	2.478995G	2.479995G	1.0005M	891.774k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402157G	2.403157G	1.0005M	839.16k
2441MHz	Pass	2.441155G	2.442156G	1.0005M	843.156k
2480MHz	Pass	2.479155G	2.480154G	999k	861.804k

BT-BR(1Mbps)

2.402G/2.403GHz

Channel Separation

10/06/2019

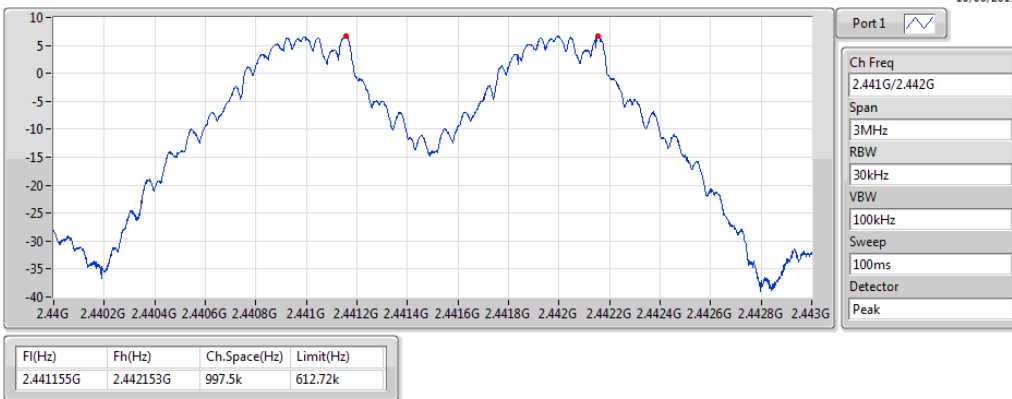


BT-BR(1Mbps)

2.441G/2.442GHz

Channel Separation

10/06/2019



BT-BR(1Mbps)

2.48G/2.479GHz

Channel Separation

10/06/2019

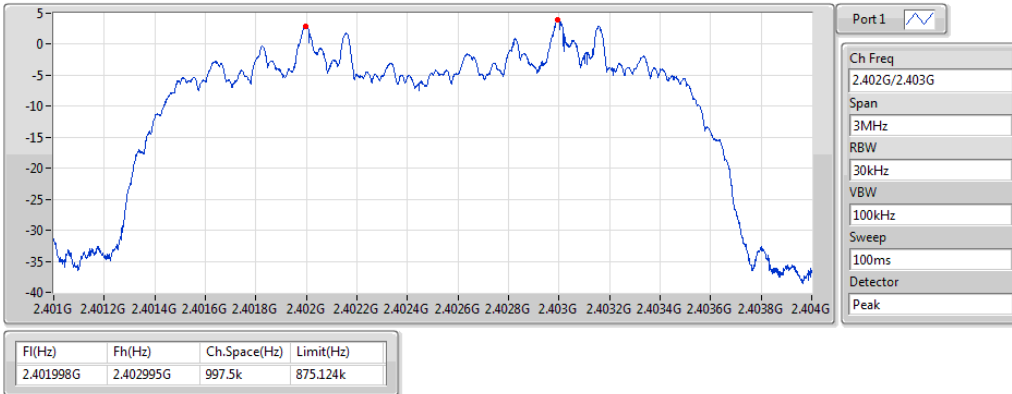


BT-EDR(2Mbps)

2.402G/2.403GHz

Channel Separation

10/06/2019

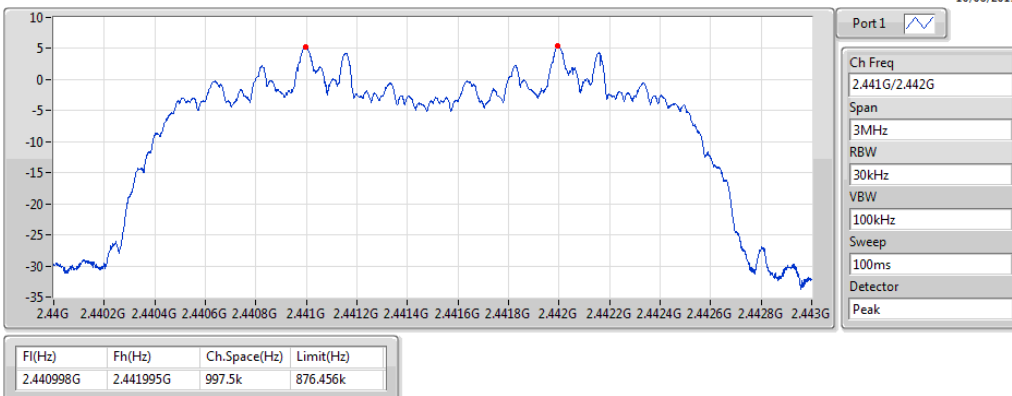


BT-EDR(2Mbps)

2.441G/2.442GHz

Channel Separation

10/06/2019

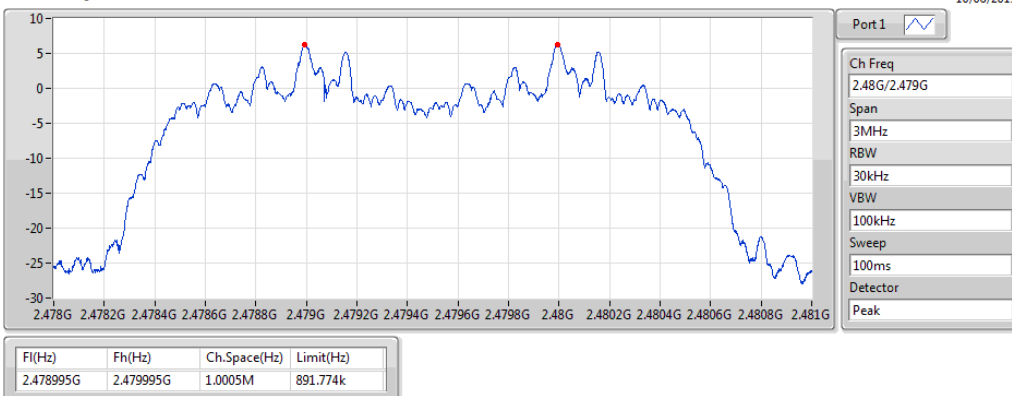


BT-EDR(2Mbps)

2.48G/2.479GHz

Channel Separation

10/06/2019

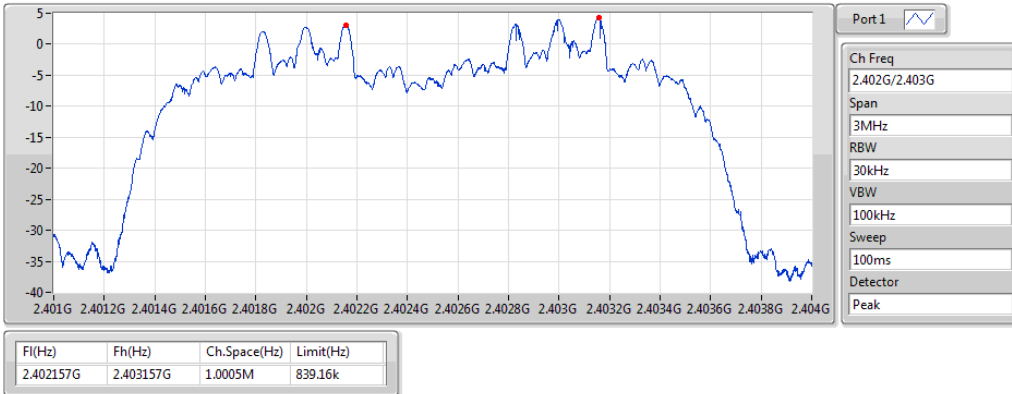


BT-EDR(3Mbps)

2.402G/2.403GHz

Channel Separation

10/06/2019

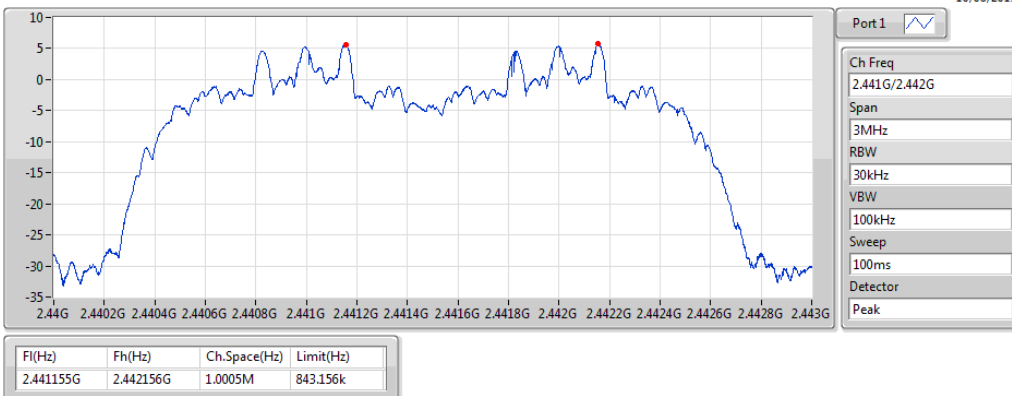


BT-EDR(3Mbps)

2.441G/2.442GHz

Channel Separation

10/06/2019

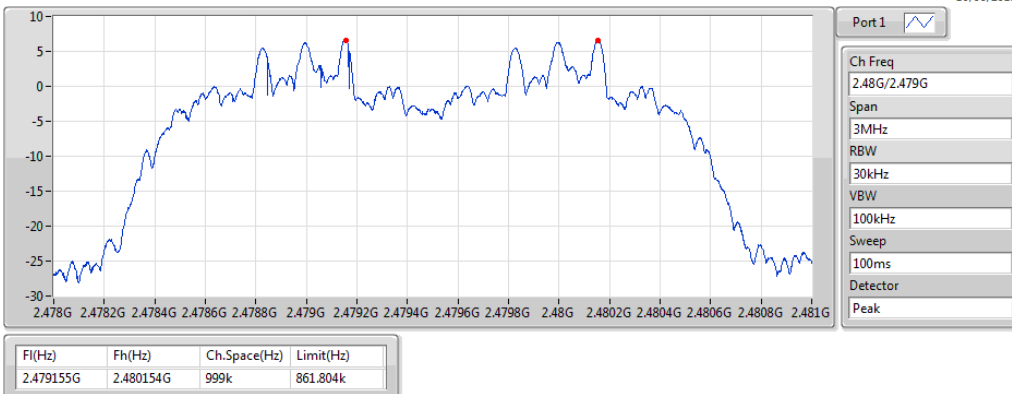


BT-EDR(3Mbps)

2.48G/2.479GHz

Channel Separation

10/06/2019





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	6.16	0.00413
BT-EDR(2Mbps)	4.12	0.00258
BT-EDR(3Mbps)	4.81	0.00303

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	-1.00	0.77	21.00
2441MHz_TnomVnom	Pass	-1.00	3.77	21.00
2480MHz_TnomVnom	Pass	-1.00	6.16	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	-1.00	3.10	21.00
2441MHz_TnomVnom	Pass	-1.00	3.73	21.00
2480MHz_TnomVnom	Pass	-1.00	4.12	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	-1.00	3.44	21.00
2441MHz_TnomVnom	Pass	-1.00	4.47	21.00
2480MHz_TnomVnom	Pass	-1.00	4.81	21.00

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



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	5.52	0.00356
BT-EDR(2Mbps)	-0.02	0.00100
BT-EDR(3Mbps)	-0.04	0.00099



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	-1.00	-0.06	21.00
2441MHz_TnomVnom	Pass	-1.00	3.02	21.00
2480MHz_TnomVnom	Pass	-1.00	5.52	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	-1.00	-0.02	21.00
2441MHz_TnomVnom	Pass	-1.00	-0.06	21.00
2480MHz_TnomVnom	Pass	-1.00	-0.37	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	-1.00	-0.09	21.00
2441MHz_TnomVnom	Pass	-1.00	-0.19	21.00
2480MHz_TnomVnom	Pass	-1.00	-0.04	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

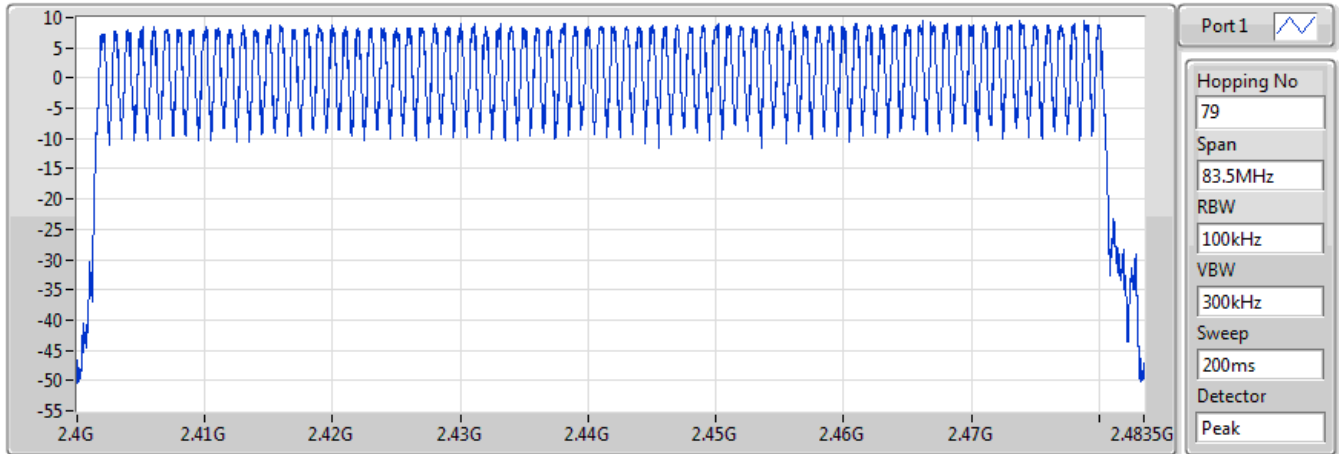
Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2441MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2441MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2441MHz	Pass	79	15

BT-BR(1Mbps)

2441MHz

Hopping Ch

10/06/2019



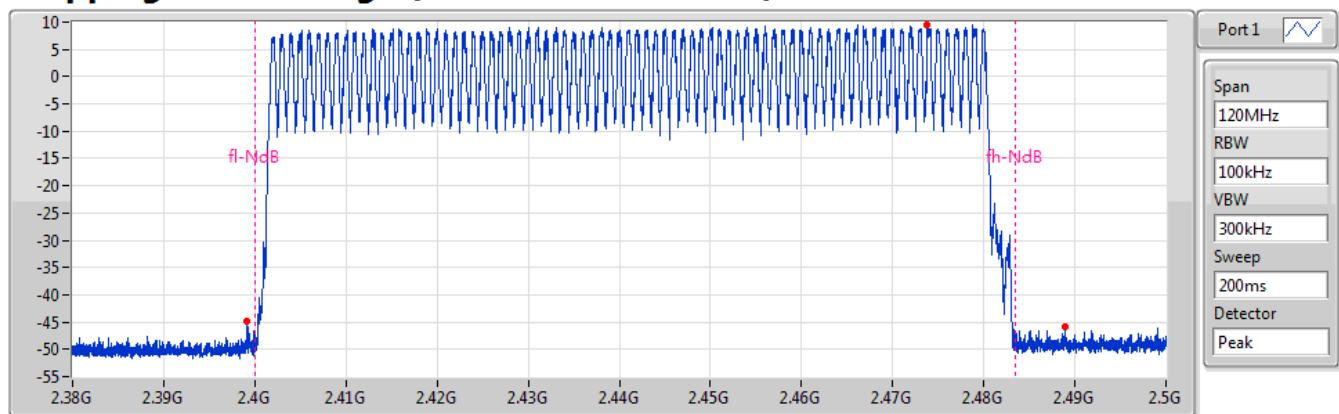
Hopping No	Limit
79	15

BT-BR(1Mbps)

2441MHz

Hopping Ch Bandedge (Non-restricted Band)

10/06/2019



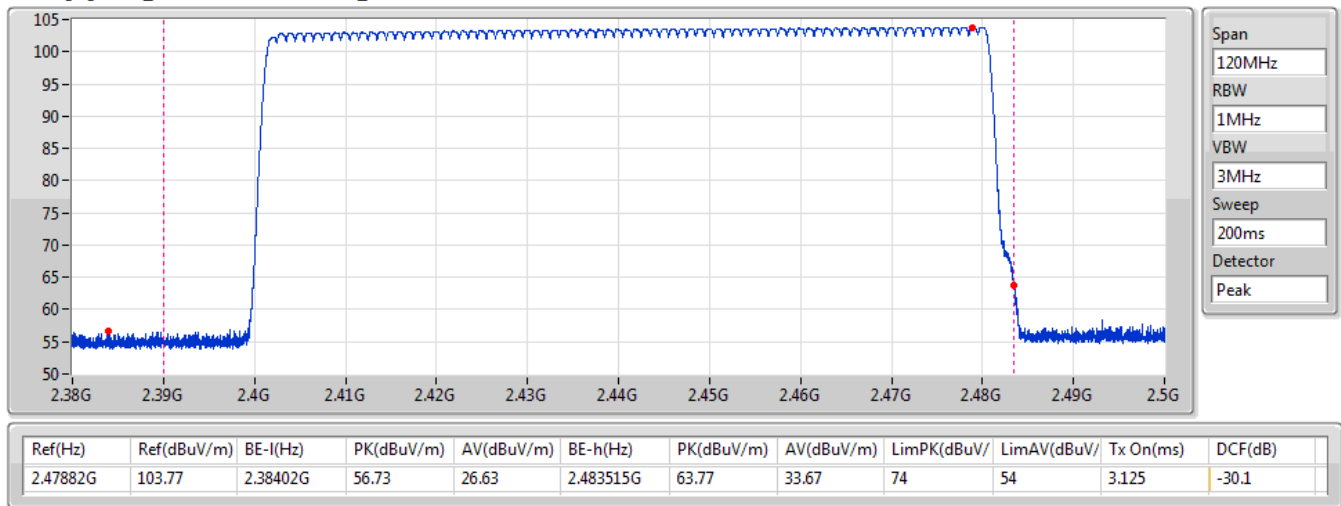
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-10.56	2.473825G	9.44	2.399185G	-44.84	2.488915G	-45.84

BT-BR(1Mbps)

2441MHz

Hopping Ch Bandedge (Restricted Band)

10/06/2019

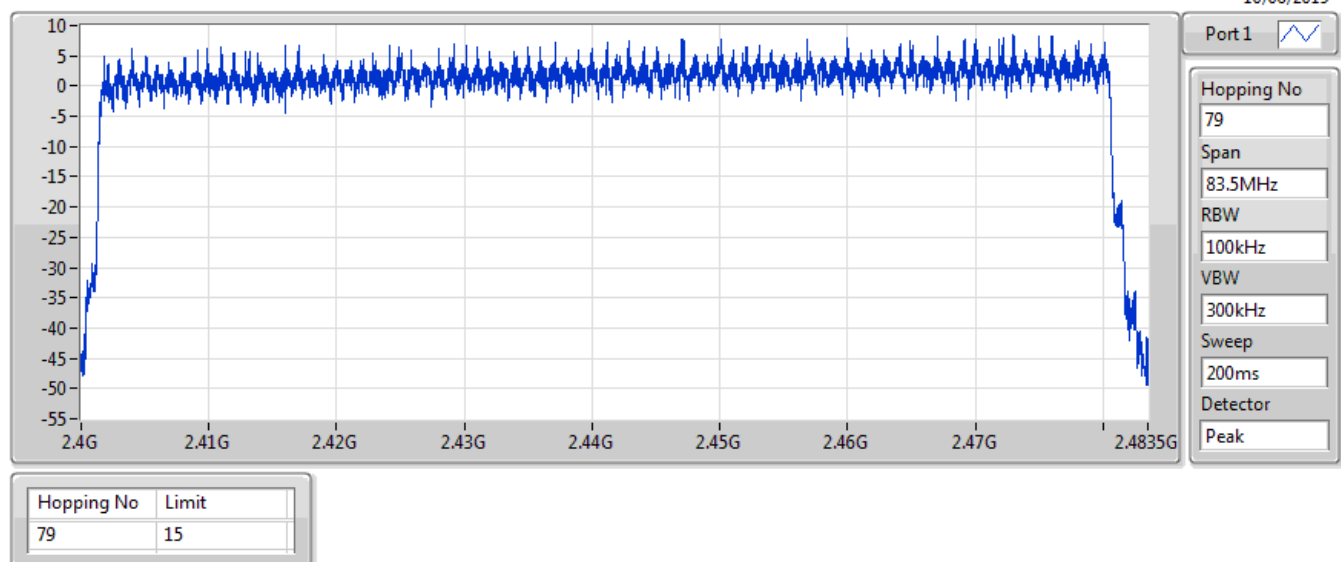


BT-EDR(2Mbps)

2441MHz

Hopping Ch

10/06/2019

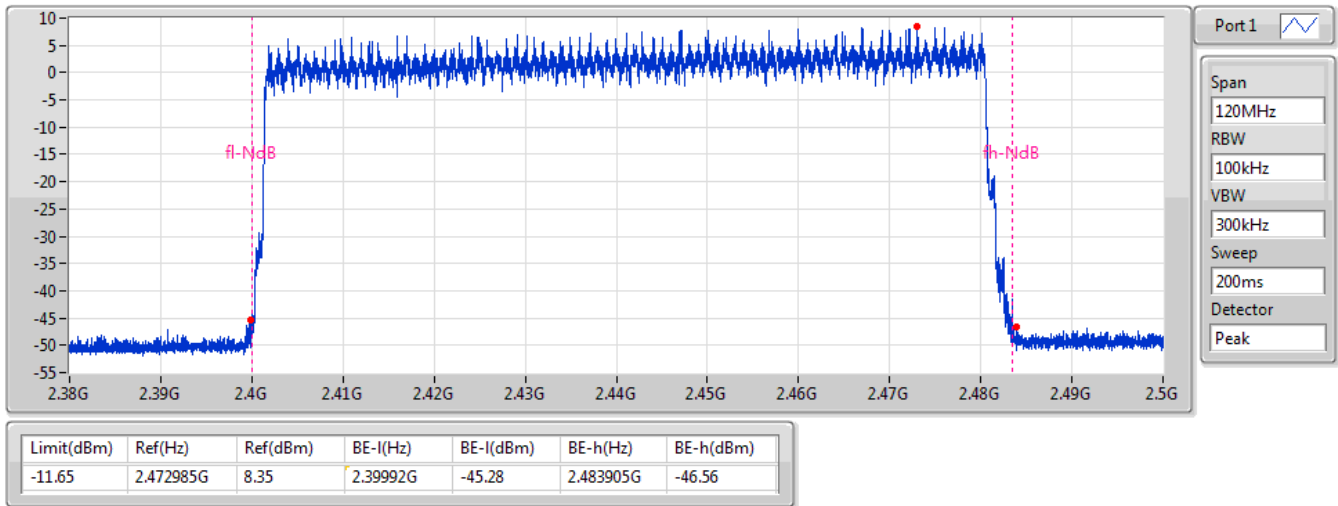


BT-EDR(2Mbps)

2441MHz

Hopping Ch Bandedge (Non-restricted Band)

10/06/2019

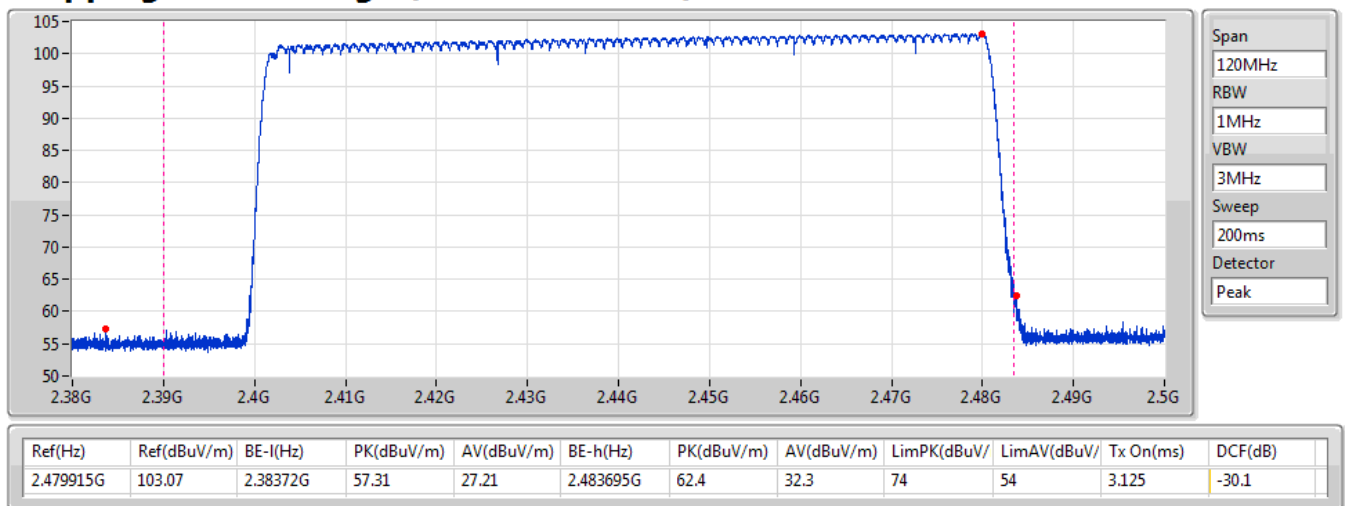


BT-EDR(2Mbps)

2441MHz

Hopping Ch Bandedge (Restricted Band)

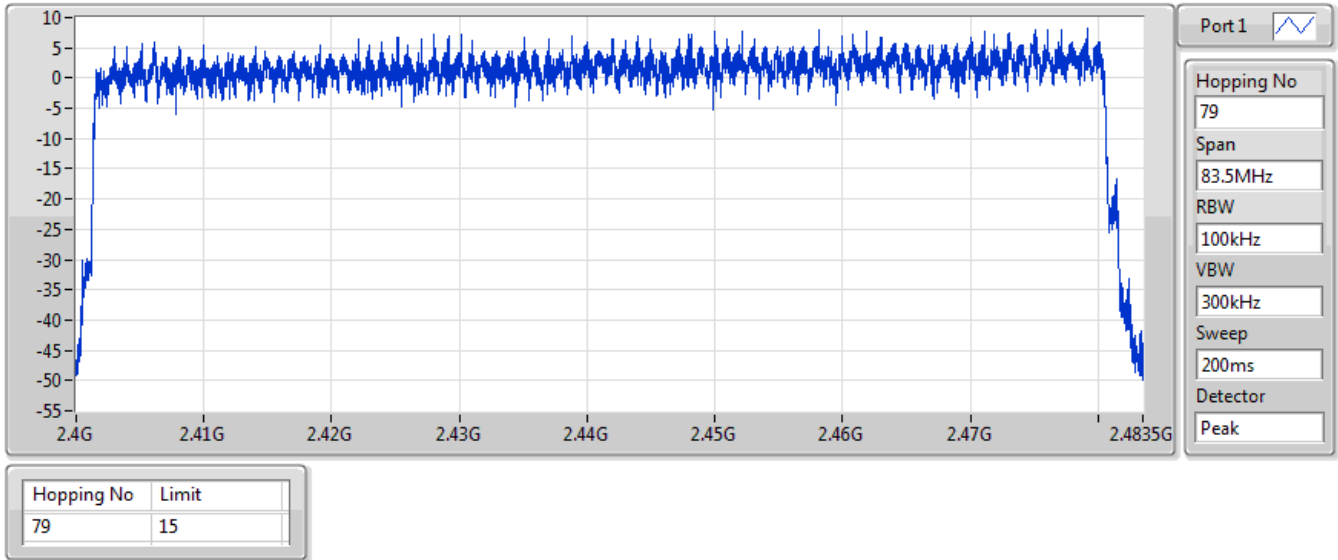
10/06/2019



BT-EDR(3Mbps) 2441MHz

Hopping Ch

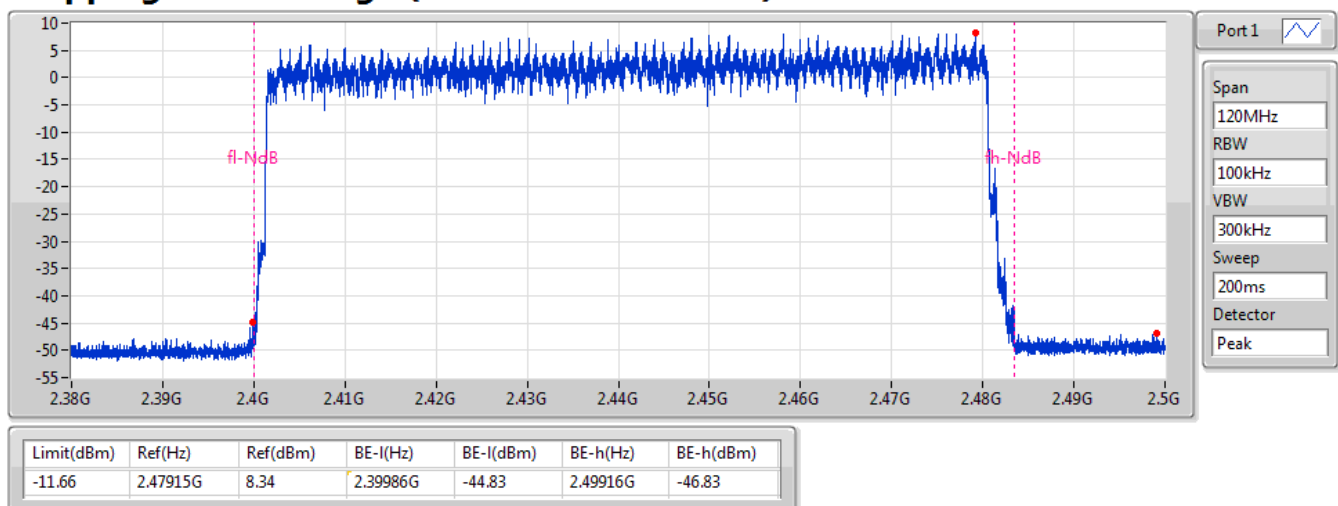
10/06/2019



BT-EDR(3Mbps) 2441MHz

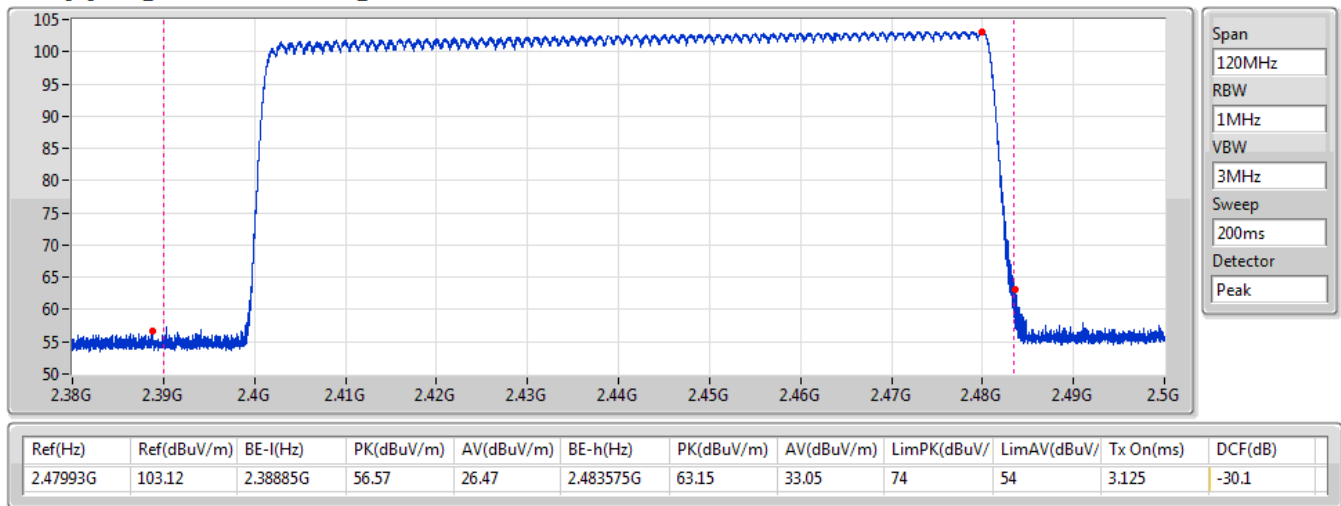
Hopping Ch Bandedge (Non-restricted Band)

10/06/2019



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

10/06/2019





Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	309.14m
BT-EDR(2Mbps)	311.6984m
BT-EDR(3Mbps)	311.9116m



Result

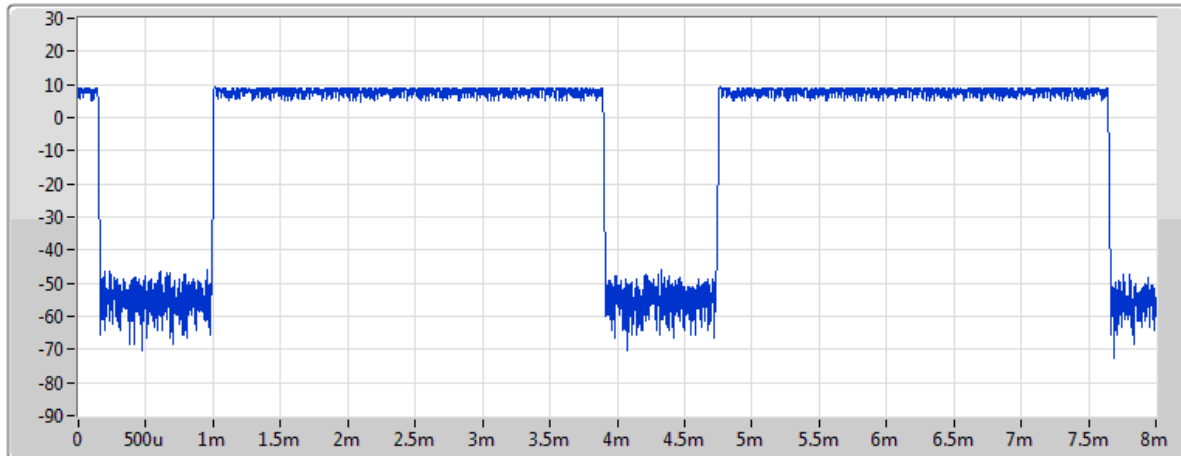
Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2441MHz	Pass	31.6	309.14m	400m	2.9m
BT-EDR(2Mbps)	-	-	-	-	-
2441MHz	Pass	31.6	311.6984m	400m	2.924m
BT-EDR(3Mbps)	-	-	-	-	-
2441MHz	Pass	31.6	311.9116m	400m	2.926m

BT-BR(1Mbps)

2441MHz

10/06/2019

Dwell



Port1 

Ch Freq
2.441GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.9ms

non AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	309.14m	400m	2.9m

AFH Mode

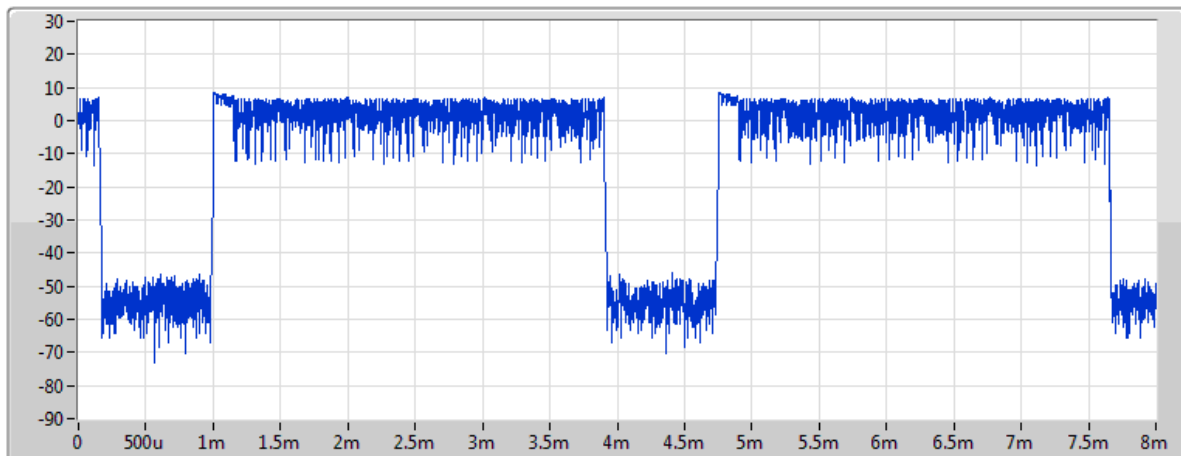
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
0	154.57m	400m	2.9m

BT-EDR(2Mbps)

2441MHz

10/06/2019

Dwell



Port1 

Ch Freq
2.441GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.924ms

non AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	311.6984m	400m	2.924m

AFH Mode

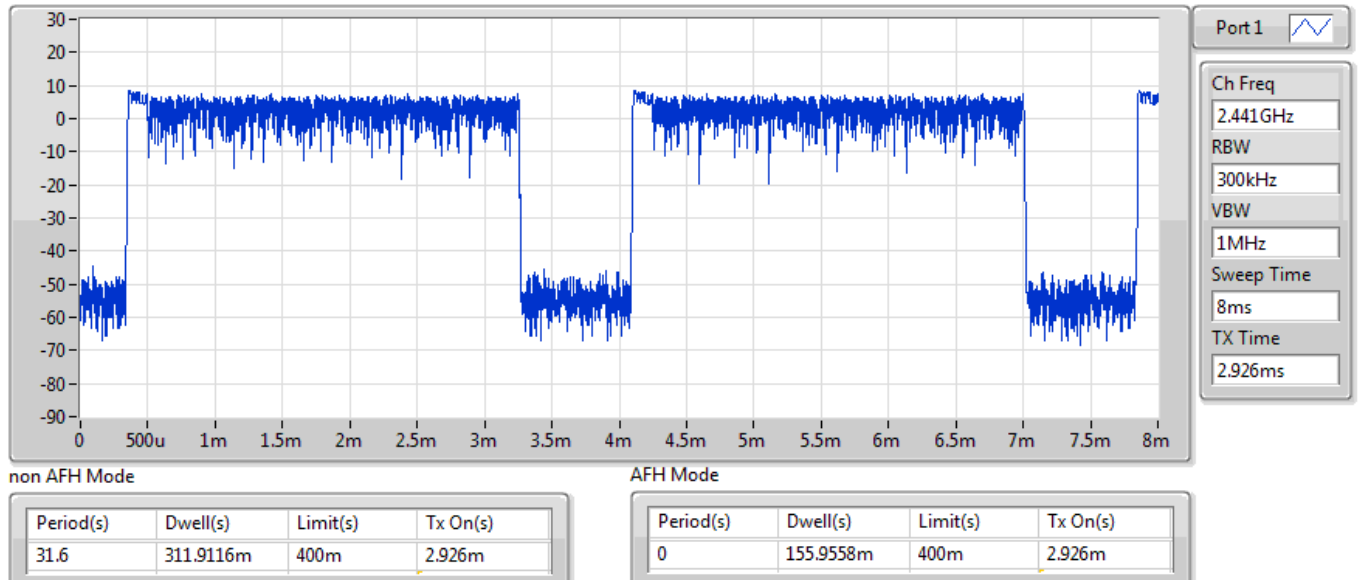
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
0	155.8492m	400m	2.924m

BT-EDR(3Mbps)

2441MHz

Dwell

10/06/2019





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.40196G	7.81	-12.19	2.39326G	-55.38	2.39997G	-42.23	2.48483G	-53.14	7.2051G	-36.94	1
BT-EDR(2Mbps)	Pass	2.40205G	3.50	-16.50	1.99159G	-55.34	2.39999G	-37.30	2.48421G	-52.96	14.69117G	-43.21	1
BT-EDR(3Mbps)	Pass	2.40196G	5.10	-14.90	2.08483G	-54.98	2.39998G	-37.66	2.48382G	-53.30	16.56269G	-43.75	1

Result

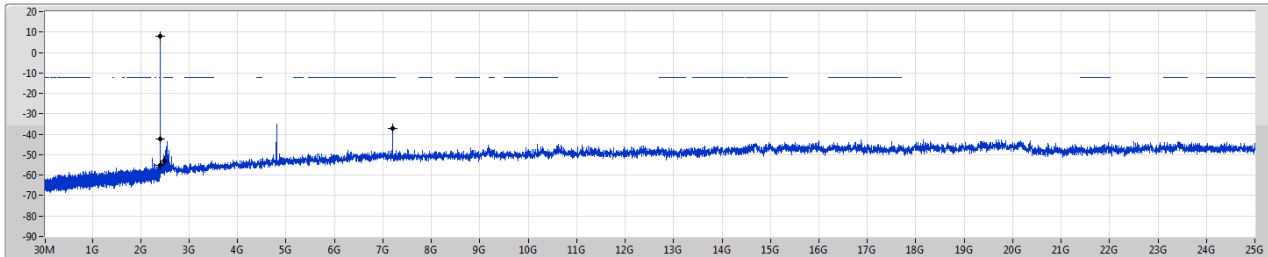
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40196G	7.81	-12.19	2.39326G	-55.38	2.39997G	-42.23	2.48483G	-53.14	7.2051G	-36.94	1
2441MHz	Pass	2.441G	8.57	-11.43	2.14966G	-55.24	2.39819G	-54.31	2.48429G	-53.62	23.43243G	-42.85	1
2480MHz	Pass	2.47987G	9.38	-10.62	1.76426G	-55.61	2.3998G	-53.62	2.48354G	-47.83	23.39021G	-43.28	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40205G	3.50	-16.50	1.99159G	-55.34	2.39999G	-37.30	2.48421G	-52.96	14.69117G	-43.21	1
2441MHz	Pass	2.44104G	6.44	-13.56	2.08217G	-55.66	2.39814G	-54.37	2.48475G	-53.15	16.25593G	-42.87	1
2480MHz	Pass	2.48016G	7.70	-12.30	2.14344G	-55.65	2.39922G	-53.76	2.48351G	-42.97	14.68273G	-42.50	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40196G	5.10	-14.90	2.08483G	-54.98	2.39998G	-37.66	2.48382G	-53.30	16.56269G	-43.75	1
2441MHz	Pass	2.44096G	6.33	-13.67	2.30446G	-55.62	2.39846G	-54.58	2.48401G	-53.11	16.72592G	-43.21	1
2480MHz	Pass	2.48003G	7.65	-12.35	2.15084G	-55.18	2.39946G	-54.17	2.48351G	-42.19	24.58911G	-42.86	1

BT-BR(1Mbps)

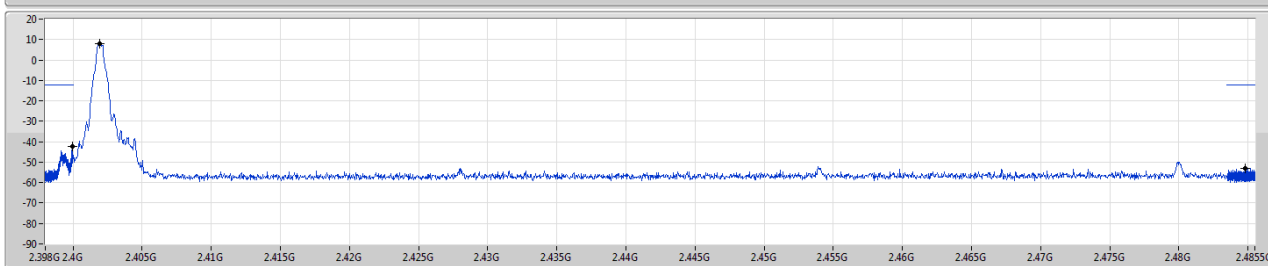
CSE NdB

2402MHz

10/06/2019



Port1



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

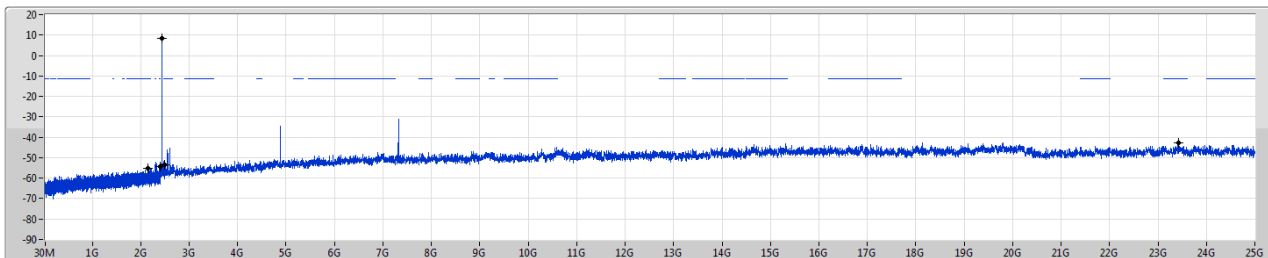
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40196G	7.81	-12.19	2.39326G	-55.38	2.39997G	-42.23	2.48483G	-53.14	7.2051G	-36.94	1

BT-BR(1Mbps)

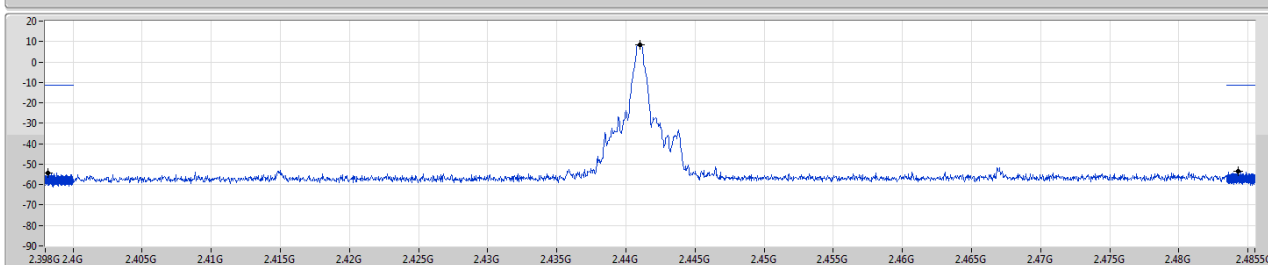
CSE NdB

2441MHz

10/06/2019



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	8.57	-11.43	2.14966G	-55.24	2.39819G	-54.31	2.48429G	-53.62	23.43243G	-42.85	1

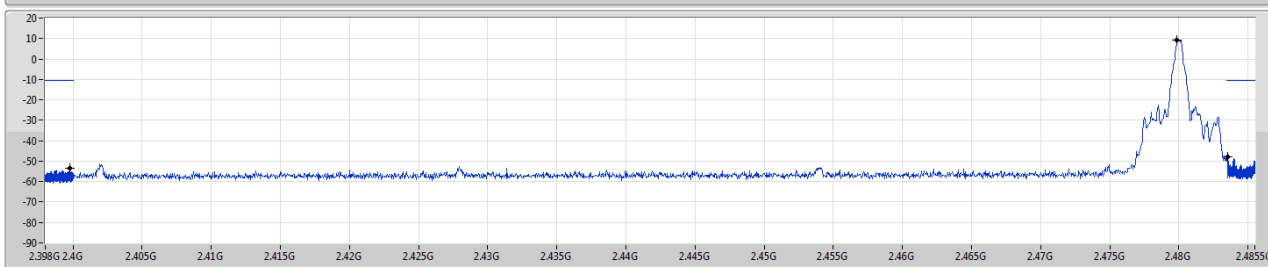
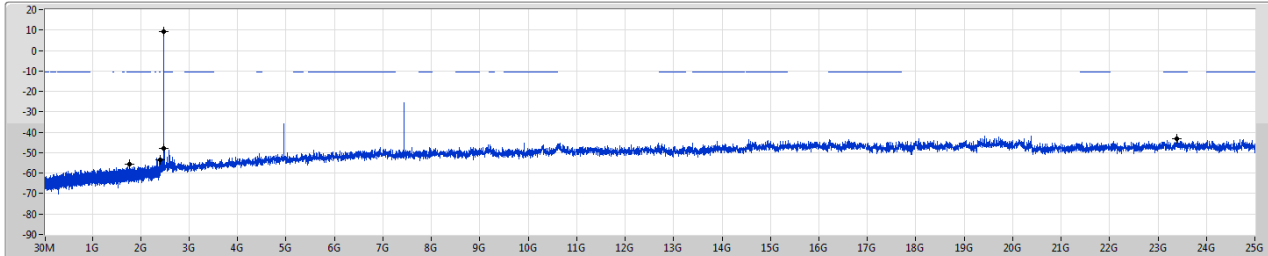
BT-BR(1Mbps)

2480MHz

CSE NdB

10/06/2019

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	1.76426G	-55.61	2.3998G	-53.62	2.48354G	-47.83	2.39021G	-43.28	1

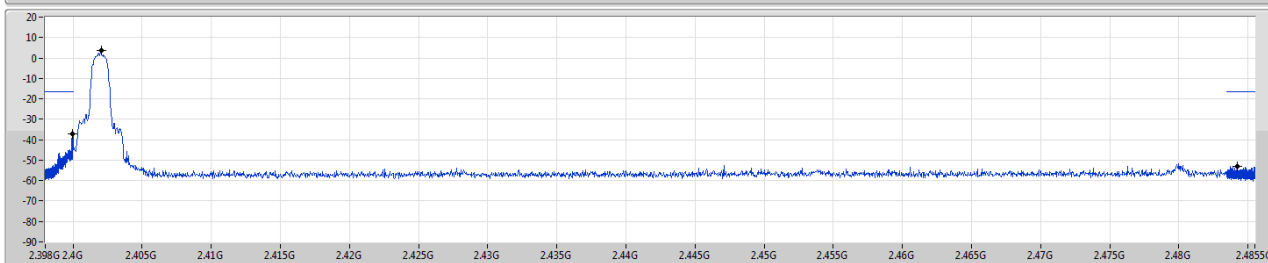
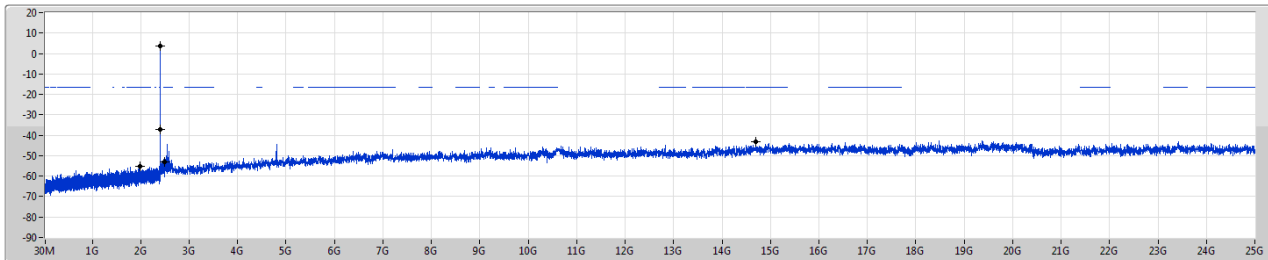
BT-EDR(2Mbps)

2402MHz

CSE NdB

10/06/2019

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
2.40205G	3.50	-16.50	1.99159G	-55.34	2.39999G	-37.30	2.48421G	-52.96	14.69117G	-43.21	1

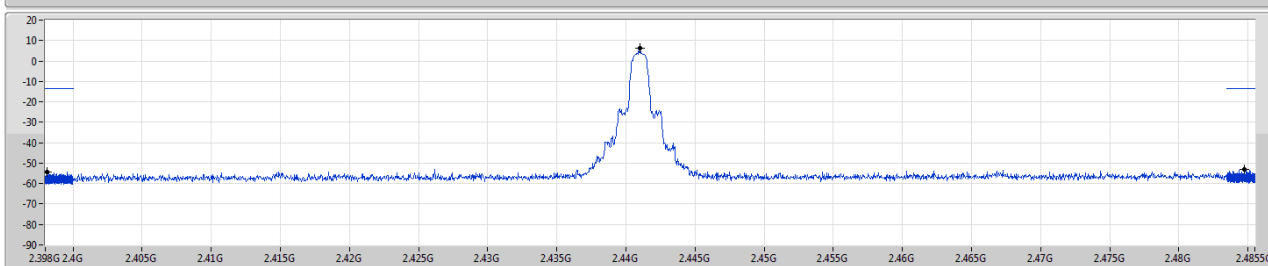
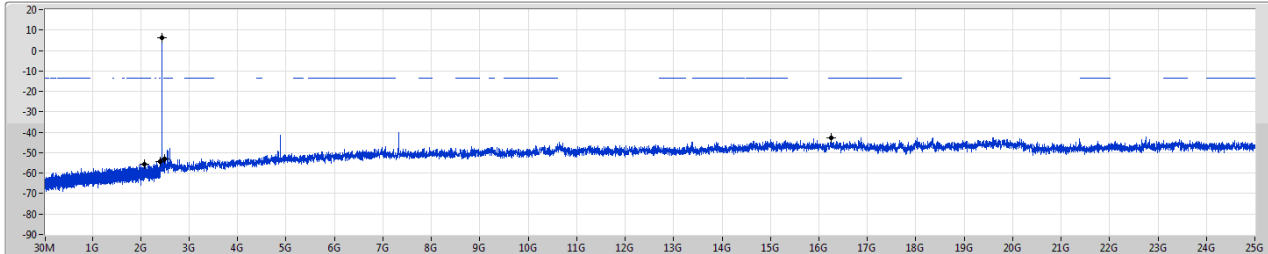
BT-EDR(2Mbps)

2441MHz

CSE NdB

10/06/2019

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
2.44104G	6.44	-13.56	2.08217G	-55.66	2.39814G	-54.37	2.48475G	-53.15	16.25593G	-42.87	1

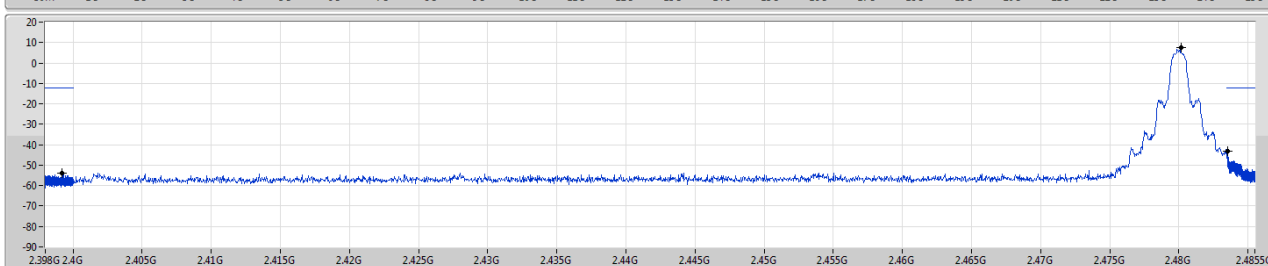
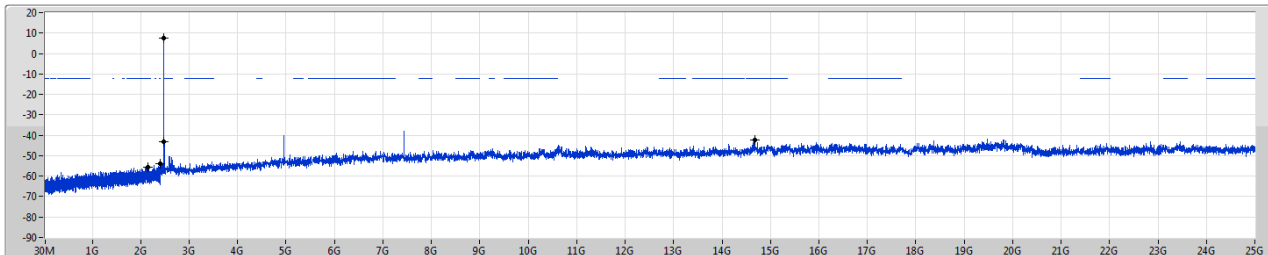
BT-EDR(2Mbps)

2480MHz

CSE NdB

10/06/2019

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
2.48016G	7.70	-12.30	2.14344G	-55.65	2.39922G	-53.76	2.48351G	-42.97	14.68273G	-42.50	1

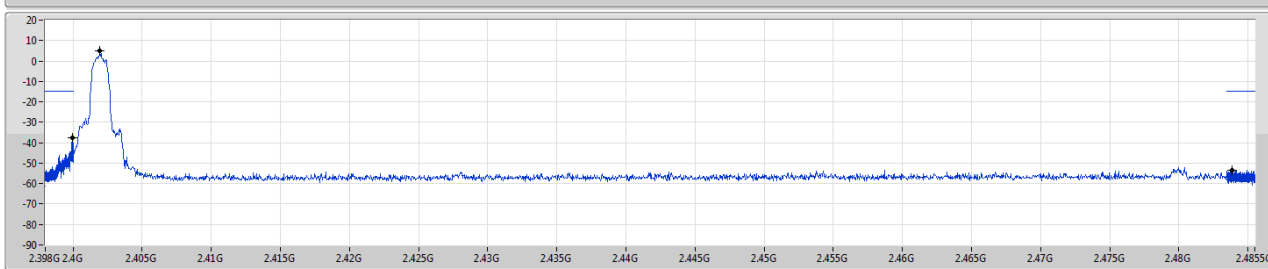
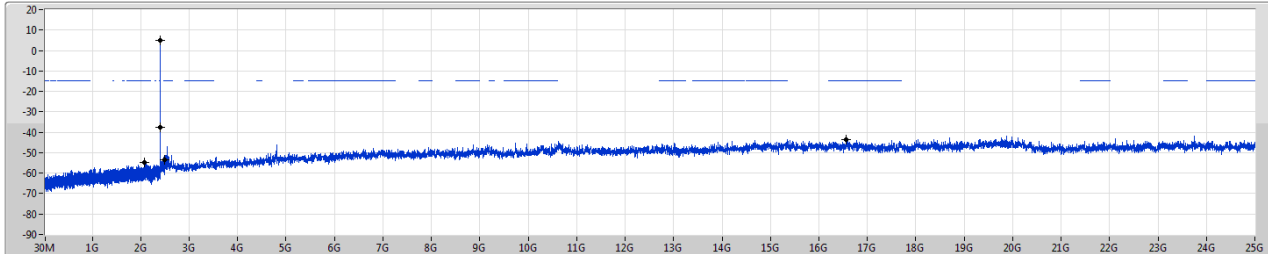
BT-EDR(3Mbps)

2402MHz

CSE NdB

10/06/2019

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
2.40196G	5.10	-14.90	2.08483G	-54.98	2.39998G	-37.66	2.48382G	-53.30	16.56269G	-43.75	1

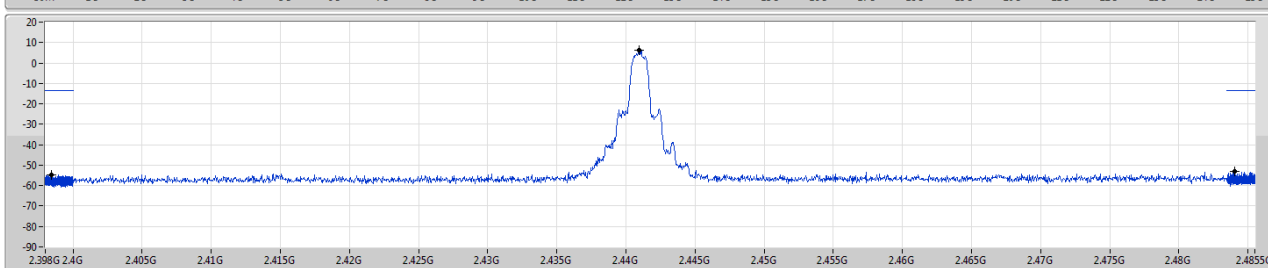
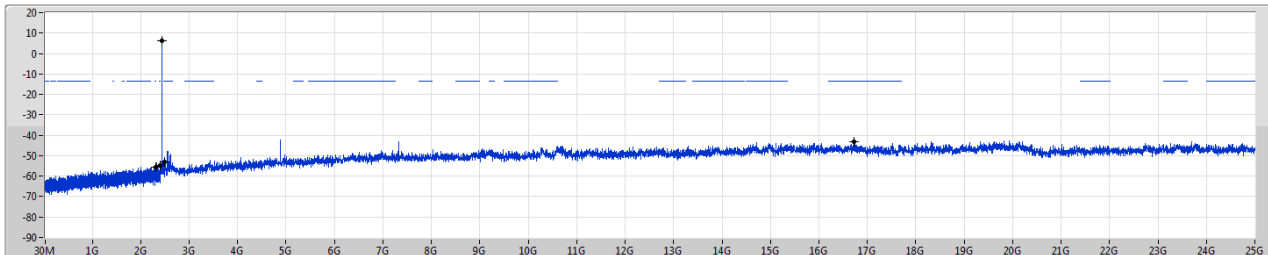
BT-EDR(3Mbps)

2441MHz

CSE NdB

10/06/2019

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
2.44096G	6.33	-13.67	2.30446G	-55.62	2.39846G	-54.58	2.48401G	-53.11	16.72592G	-43.21	1

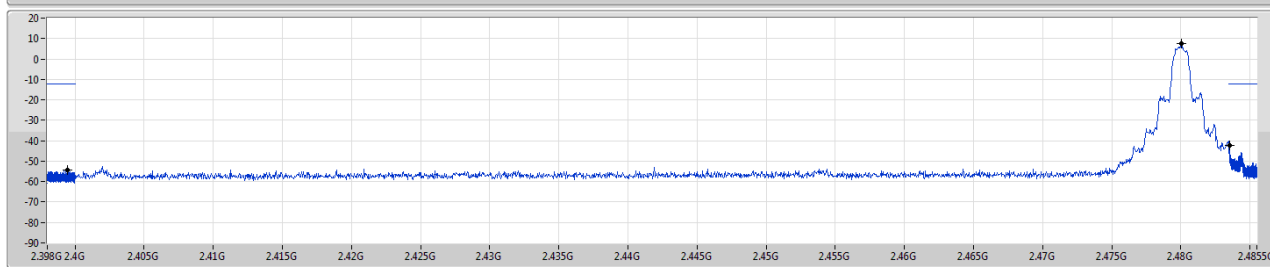
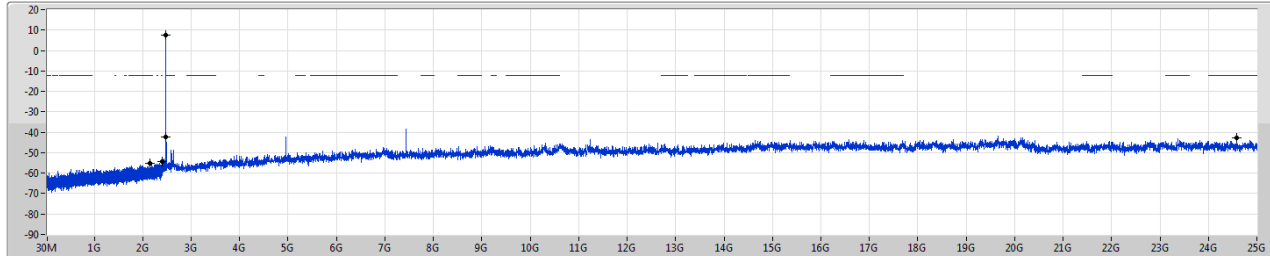
BT-EDR(3Mbps)

2480MHz

CSE NdB

10/06/2019

Port1



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

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.48003G	7.65	-12.35	2.15084G	-55.18	2.39946G	-54.17	2.48351G	-42.19	24.58911G	-42.86	1



RSE TX below 1GHz Result

Appendix G.1

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	PK	35.62M	35.37	40.00	-4.63	-10.87	3	Horizontal	360	1.00	-

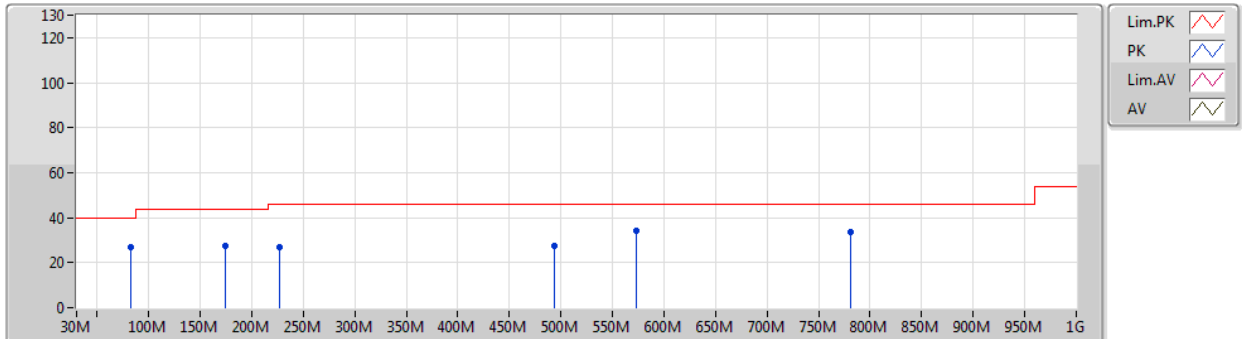
Result

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)	-	-	-	-	-	-	-	-	-	-	-	-
2441MHz_Adapter	Pass	PK	82.01M	26.94	40.00	-13.06	-18.47	3	Vertical	0	1.00	-
2441MHz_Adapter	Pass	PK	174.8M	27.31	43.50	-16.19	-16.13	3	Vertical	0	1.00	-
2441MHz_Adapter	Pass	PK	226.81M	26.93	46.00	-19.07	-15.34	3	Vertical	0	1.00	-
2441MHz_Adapter	Pass	PK	493.91M	27.43	46.00	-18.57	-6.28	3	Vertical	0	1.00	-
2441MHz_Adapter	Pass	PK	572.64M	33.92	46.00	-12.08	-4.89	3	Vertical	0	1.00	-
2441MHz_Adapter	Pass	PK	780.7M	33.73	46.00	-12.27	-2.87	3	Vertical	0	1.00	-
2441MHz_Adapter	Pass	PK	35.62M	35.37	40.00	-4.63	-10.87	3	Horizontal	360	1.00	-
2441MHz_Adapter	Pass	PK	80.61M	26.60	40.00	-13.40	-18.70	3	Horizontal	360	1.00	-
2441MHz_Adapter	Pass	PK	226.81M	35.44	46.00	-10.56	-15.34	3	Horizontal	360	1.00	-
2441MHz_Adapter	Pass	PK	468.61M	28.53	46.00	-17.47	-6.70	3	Horizontal	360	1.00	-
2441MHz_Adapter	Pass	PK	572.64M	35.43	46.00	-10.57	-4.89	3	Horizontal	360	1.00	-
2441MHz_Adapter	Pass	PK	780.7M	38.11	46.00	-7.89	-2.87	3	Horizontal	360	1.00	-

BT-BR(1Mbps)

2441MHz_Adapter

07/06/2019

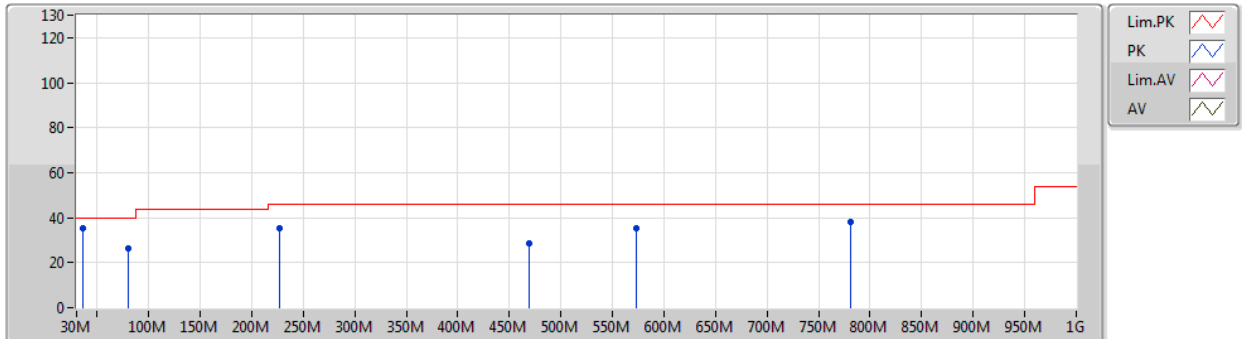


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
PK	82.01M	26.94	40.00	-13.06	-18.47	3	Vertical	0	1.00	-				
PK	174.8M	27.31	43.50	-16.19	-16.13	3	Vertical	0	1.00	-				
PK	226.81M	26.93	46.00	-19.07	-15.34	3	Vertical	0	1.00	-				
PK	493.91M	27.43	46.00	-18.57	-6.28	3	Vertical	0	1.00	-				
PK	572.64M	33.92	46.00	-12.08	-4.89	3	Vertical	0	1.00	-				
PK	780.7M	33.73	46.00	-12.27	-2.87	3	Vertical	0	1.00	-				

BT-BR(1Mbps)

2441MHz_Adapter

07/06/2019



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	35.62M	35.37	40.00	-4.63	-10.87	3	Horizontal	360	1.00	-
PK	80.61M	26.60	40.00	-13.40	-18.70	3	Horizontal	360	1.00	-
PK	226.81M	35.44	46.00	-10.56	-15.34	3	Horizontal	360	1.00	-
PK	468.61M	28.53	46.00	-17.47	-6.70	3	Horizontal	360	1.00	-
PK	572.64M	35.43	46.00	-10.57	-4.89	3	Horizontal	360	1.00	-
PK	780.7M	38.11	46.00	-7.89	-2.87	3	Horizontal	360	1.00	-

**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	7.4395G	69.36	74.00	-4.64	1.51	3	Horizontal	187	2.84	-
BT-EDR(3Mbps)	Pass	PK	7.43995G	63.22	74.00	-10.78	1.51	3	Horizontal	174	2.82	-

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_TX	Pass	AV	2.3616G	34.11	54.00	-19.89	31.63	3	Vertical	87	2.92	-
2402MHz_TX	Pass	AV	2.4022G	72.91	Inf	-Inf	31.54	3	Vertical	87	2.92	-
2402MHz_TX	Pass	PK	2.3616G	56.61	74.00	-17.39	31.63	3	Vertical	87	2.92	-
2402MHz_TX	Pass	PK	2.4022G	95.41	Inf	-Inf	31.54	3	Vertical	87	2.92	-
2402MHz_TX	Pass	AV	2.3564G	34.61	54.00	-19.39	31.64	3	Horizontal	175	2.99	-
2402MHz_TX	Pass	AV	2.4022G	80.64	Inf	-Inf	31.54	3	Horizontal	175	2.99	-
2402MHz_TX	Pass	PK	2.3564G	57.11	74.00	-16.89	31.64	3	Horizontal	175	2.99	-
2402MHz_TX	Pass	PK	2.4022G	103.14	Inf	-Inf	31.54	3	Horizontal	175	2.99	-
2402MHz_TX	Pass	AV	4.80372G	31.86	54.00	-22.14	-3.94	3	Vertical	136	2.63	-
2402MHz_TX	Pass	PK	4.80372G	54.36	74.00	-19.64	-3.94	3	Vertical	136	2.63	-
2402MHz_TX	Pass	AV	4.80373G	33.69	54.00	-20.31	-3.94	3	Horizontal	311	1.00	-
2402MHz_TX	Pass	PK	4.80373G	56.19	74.00	-17.81	-3.94	3	Horizontal	311	1.00	-
2441MHz_TX	Pass	AV	2.3802G	34.34	54.00	-19.66	31.59	3	Vertical	327	2.78	-
2441MHz_TX	Pass	AV	2.441G	73.54	Inf	-Inf	31.55	3	Vertical	327	2.78	-
2441MHz_TX	Pass	AV	2.4954G	33.56	54.00	-20.44	31.57	3	Vertical	327	2.78	-
2441MHz_TX	Pass	PK	2.3802G	56.84	74.00	-17.16	31.59	3	Vertical	327	2.78	-
2441MHz_TX	Pass	PK	2.441G	96.04	Inf	-Inf	31.55	3	Vertical	327	2.78	-
2441MHz_TX	Pass	PK	2.4954G	56.06	74.00	-17.94	31.57	3	Vertical	327	2.78	-
2441MHz_TX	Pass	AV	2.3514G	33.84	54.00	-20.16	31.65	3	Horizontal	173	2.89	-
2441MHz_TX	Pass	AV	2.441G	81.59	Inf	-Inf	31.55	3	Horizontal	173	2.89	-
2441MHz_TX	Pass	AV	2.497G	34.75	54.00	-19.25	31.58	3	Horizontal	173	2.89	-
2441MHz_TX	Pass	PK	2.3514G	56.34	74.00	-17.66	31.65	3	Horizontal	173	2.89	-
2441MHz_TX	Pass	PK	2.441G	104.09	Inf	-Inf	31.55	3	Horizontal	173	2.89	-
2441MHz_TX	Pass	PK	2.497G	57.25	74.00	-16.75	31.58	3	Horizontal	173	2.89	-
2441MHz_TX	Pass	AV	4.88218G	31.69	54.00	-22.31	1.82	3	Vertical	190	1.42	-
2441MHz_TX	Pass	AV	7.32246G	43.47	54.00	-10.53	7.50	3	Vertical	343	2.91	-
2441MHz_TX	Pass	PK	4.88218G	54.19	74.00	-19.81	1.82	3	Vertical	190	1.42	-
2441MHz_TX	Pass	PK	7.32246G	65.97	74.00	-8.03	7.50	3	Vertical	343	2.91	-
2441MHz_TX	Pass	AV	4.8817G	34.28	54.00	-19.72	1.82	3	Horizontal	139	1.08	-
2441MHz_TX	Pass	AV	7.32246G	46.85	54.00	-7.15	7.50	3	Horizontal	43	1.03	-
2441MHz_TX	Pass	PK	4.8817G	56.78	74.00	-17.22	1.82	3	Horizontal	139	1.08	-
2441MHz_TX	Pass	PK	7.32246G	69.35	74.00	-4.65	7.50	3	Horizontal	43	1.03	-
2480MHz_TX	Pass	AV	2.4798G	75.31	Inf	-Inf	31.57	3	Vertical	111	2.75	-
2480MHz_TX	Pass	AV	2.4922G	34.16	54.00	-19.84	31.58	3	Vertical	111	2.75	-
2480MHz_TX	Pass	PK	2.4798G	97.81	Inf	-Inf	31.57	3	Vertical	111	2.75	-
2480MHz_TX	Pass	PK	2.4922G	56.66	74.00	-17.34	31.58	3	Vertical	111	2.75	-
2480MHz_TX	Pass	AV	2.4798G	58.03	Inf	-Inf	31.57	3	Horizontal	172	2.84	-
2480MHz_TX	Pass	AV	2.48354G	35.54	54.00	-18.46	31.58	3	Horizontal	172	2.84	-
2480MHz_TX	Pass	PK	2.4798G	103.72	Inf	-Inf	31.57	3	Horizontal	172	2.84	-
2480MHz_TX	Pass	PK	2.48354G	58.04	74.00	-15.96	31.58	3	Horizontal	172	2.84	-
2480MHz_TX	Pass	AV	4.95958G	32.39	54.00	-21.61	2.02	3	Vertical	192	1.36	-
2480MHz_TX	Pass	AV	7.4394G	45.13	54.00	-8.87	7.80	3	Vertical	295	2.84	-
2480MHz_TX	Pass	PK	4.95958G	54.89	74.00	-19.11	2.02	3	Vertical	192	1.36	-
2480MHz_TX	Pass	PK	7.4394G	67.63	74.00	-6.37	7.80	3	Vertical	295	2.84	-
2480MHz_TX	Pass	AV	4.95971G	32.93	54.00	-21.07	-3.63	3	Horizontal	19	2.99	-
2480MHz_TX	Pass	AV	7.4395G	46.86	54.00	-7.14	1.51	3	Horizontal	187	2.84	-
2480MHz_TX	Pass	PK	4.95971G	55.43	74.00	-18.57	-3.63	3	Horizontal	19	2.99	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2480MHz_TX	Pass	PK	7.4395G	69.36	74.00	-4.64	1.51	3	Horizontal	187	2.84	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TX	Pass	AV	2.3822G	34.15	54.00	-19.85	31.58	3	Vertical	40	1.01	-
2402MHz_TX	Pass	AV	2.402G	65.75	Inf	-Inf	31.54	3	Vertical	40	1.01	-
2402MHz_TX	Pass	PK	2.3822G	56.65	74.00	-17.35	31.58	3	Vertical	40	1.01	-
2402MHz_TX	Pass	PK	2.402G	88.25	Inf	-Inf	31.54	3	Vertical	40	1.01	-
2402MHz_TX	Pass	AV	2.3848G	33.86	54.00	-20.14	31.57	3	Horizontal	177	2.99	-
2402MHz_TX	Pass	AV	2.402G	77.49	Inf	-Inf	31.54	3	Horizontal	177	2.99	-
2402MHz_TX	Pass	PK	2.3848G	56.36	74.00	-17.64	31.57	3	Horizontal	177	2.99	-
2402MHz_TX	Pass	PK	2.402G	99.99	Inf	-Inf	31.54	3	Horizontal	177	2.99	-
2402MHz_TX	Pass	AV	4.8038G	27.94	54.00	-26.06	-3.94	3	Vertical	137	2.62	-
2402MHz_TX	Pass	PK	4.8038G	50.44	74.00	-23.56	-3.94	3	Vertical	137	2.62	-
2402MHz_TX	Pass	AV	4.80355G	29.98	54.00	-24.02	-3.94	3	Horizontal	124	1.00	-
2402MHz_TX	Pass	PK	4.80355G	52.48	74.00	-21.52	-3.94	3	Horizontal	124	1.00	-
2441MHz_TX	Pass	AV	2.3546G	34.09	54.00	-19.91	31.65	3	Vertical	107	2.86	-
2441MHz_TX	Pass	AV	2.441G	72.16	Inf	-Inf	31.55	3	Vertical	107	2.86	-
2441MHz_TX	Pass	AV	2.4942G	33.99	54.00	-20.01	31.58	3	Vertical	107	2.86	-
2441MHz_TX	Pass	PK	2.3546G	56.59	74.00	-17.41	31.65	3	Vertical	107	2.86	-
2441MHz_TX	Pass	PK	2.441G	94.66	Inf	-Inf	31.55	3	Vertical	107	2.86	-
2441MHz_TX	Pass	PK	2.4942G	56.49	74.00	-17.51	31.58	3	Vertical	107	2.86	-
2441MHz_TX	Pass	AV	2.3762G	34.47	54.00	-19.53	31.60	3	Horizontal	173	2.89	-
2441MHz_TX	Pass	AV	2.4406G	79.39	Inf	-Inf	31.55	3	Horizontal	173	2.89	-
2441MHz_TX	Pass	AV	2.497G	34.69	54.00	-19.31	31.58	3	Horizontal	173	2.89	-
2441MHz_TX	Pass	PK	2.3762G	56.97	74.00	-17.03	31.60	3	Horizontal	173	2.89	-
2441MHz_TX	Pass	PK	2.4406G	101.89	Inf	-Inf	31.55	3	Horizontal	173	2.89	-
2441MHz_TX	Pass	PK	2.497G	57.19	74.00	-16.81	31.58	3	Horizontal	173	2.89	-
2441MHz_TX	Pass	AV	4.88174G	27.99	54.00	-26.01	-3.90	3	Vertical	140	1.00	-
2441MHz_TX	Pass	AV	7.32297G	37.48	54.00	-16.52	1.44	3	Vertical	188	2.88	-
2441MHz_TX	Pass	PK	4.88174G	50.49	74.00	-23.51	-3.90	3	Vertical	140	1.00	-
2441MHz_TX	Pass	PK	7.32297G	59.98	74.00	-14.02	1.44	3	Vertical	188	2.88	-
2441MHz_TX	Pass	AV	4.88179G	31.68	54.00	-22.32	-3.90	3	Horizontal	125	1.00	-
2441MHz_TX	Pass	AV	7.32292G	38.75	54.00	-15.25	1.44	3	Horizontal	189	1.04	-
2441MHz_TX	Pass	PK	4.88179G	54.18	74.00	-19.82	-3.90	3	Horizontal	125	1.00	-
2441MHz_TX	Pass	PK	7.32292G	61.25	74.00	-12.75	1.44	3	Horizontal	189	1.04	-
2480MHz_TX	Pass	AV	2.4798G	73.73	Inf	-Inf	31.57	3	Vertical	109	2.75	-
2480MHz_TX	Pass	AV	2.4842G	33.99	54.00	-20.01	31.58	3	Vertical	109	2.75	-
2480MHz_TX	Pass	PK	2.4798G	96.23	Inf	-Inf	31.57	3	Vertical	109	2.75	-
2480MHz_TX	Pass	PK	2.4842G	56.49	74.00	-17.51	31.58	3	Vertical	109	2.75	-
2480MHz_TX	Pass	AV	2.4798G	79.78	Inf	-Inf	31.57	3	Horizontal	172	2.84	-
2480MHz_TX	Pass	AV	2.4886G	34.46	54.00	-19.54	31.57	3	Horizontal	172	2.84	-
2480MHz_TX	Pass	PK	2.4798G	102.28	Inf	-Inf	31.57	3	Horizontal	172	2.84	-
2480MHz_TX	Pass	PK	2.4886G	56.96	74.00	-17.04	31.57	3	Horizontal	172	2.84	-
2480MHz_TX	Pass	AV	4.95969G	26.71	54.00	-27.29	-3.63	3	Vertical	131	2.51	-
2480MHz_TX	Pass	AV	7.43985G	39.06	54.00	-14.94	1.51	3	Vertical	193	2.93	-
2480MHz_TX	Pass	PK	4.95969G	49.21	74.00	-24.79	-3.63	3	Vertical	131	2.51	-
2480MHz_TX	Pass	PK	7.43985G	61.56	74.00	-12.44	1.51	3	Vertical	193	2.93	-
2480MHz_TX	Pass	AV	4.96024G	30.45	54.00	-23.55	-3.63	3	Horizontal	163	1.01	-
2480MHz_TX	Pass	AV	7.43995G	40.72	54.00	-13.28	1.51	3	Horizontal	174	2.82	-
2480MHz_TX	Pass	PK	4.96024G	52.95	74.00	-21.05	-3.63	3	Horizontal	163	1.01	-



RSE TX above 1GHz Result

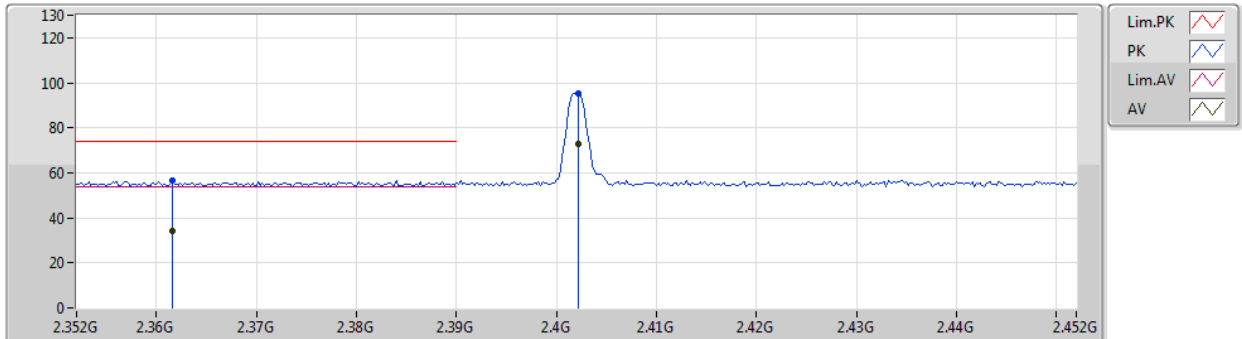
Appendix G.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2480MHz_TX	Pass	PK	7.43995G	63.22	74.00	-10.78	1.51	3	Horizontal	174	2.82	-

BT-BR(1Mbps)

2402MHz_TX

07/06/2019

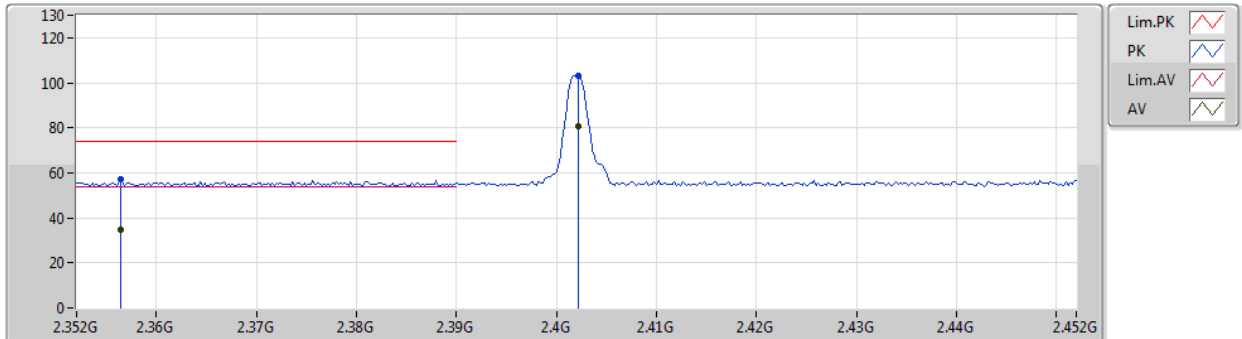


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3616G	34.11	54.00	-19.89	31.63	3	Vertical	87	2.92	-				
AV	2.4022G	72.91	Inf	-Inf	31.54	3	Vertical	87	2.92	-				
PK	2.3616G	56.61	74.00	-17.39	31.63	3	Vertical	87	2.92	-				
PK	2.4022G	95.41	Inf	-Inf	31.54	3	Vertical	87	2.92	-				

BT-BR(1Mbps)

2402MHz_TX

07/06/2019

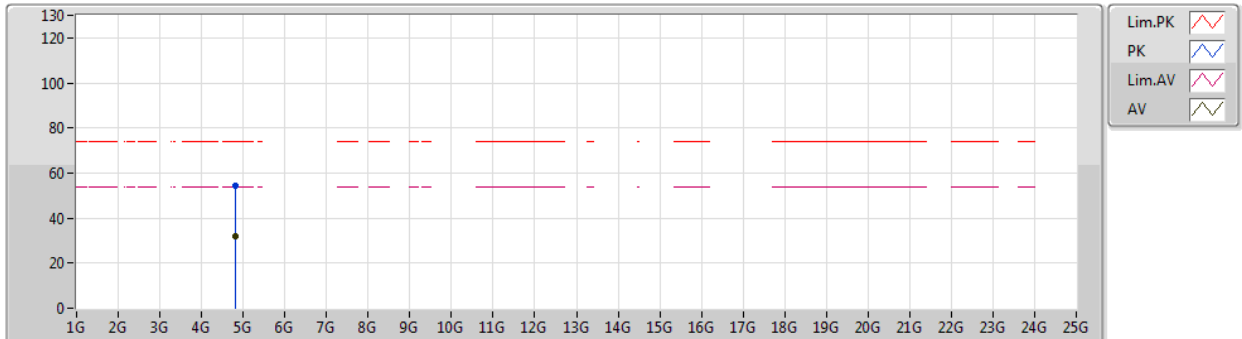


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3564G	34.61	54.00	-19.39	31.64	3	Horizontal	175	2.99	-				
AV	2.4022G	80.64	Inf	-Inf	31.54	3	Horizontal	175	2.99	-				
PK	2.3564G	57.11	74.00	-16.89	31.64	3	Horizontal	175	2.99	-				
PK	2.4022G	103.14	Inf	-Inf	31.54	3	Horizontal	175	2.99	-				

BT-BR(1Mbps)

2402MHz_TX

07/06/2019

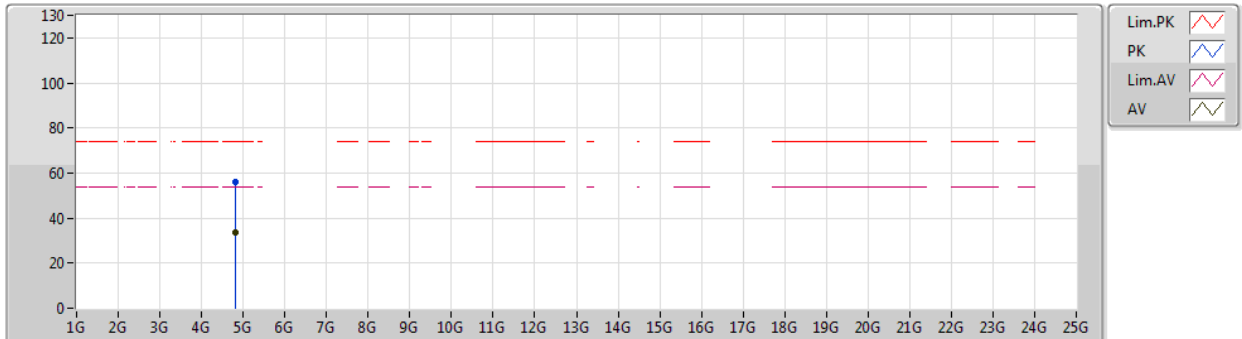


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.80372G	31.86	54.00	-22.14	-3.94	3	Vertical	136	2.63	-
PK	4.80372G	54.36	74.00	-19.64	-3.94	3	Vertical	136	2.63	-

BT-BR(1Mbps)

2402MHz_TX

07/06/2019

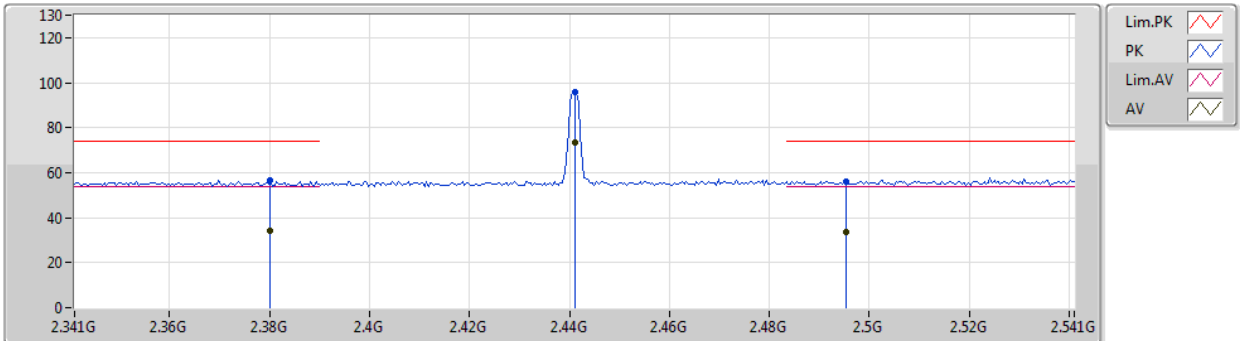


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.80373G	33.69	54.00	-20.31	-3.94	3	Horizontal	311	1.00	-
PK	4.80373G	56.19	74.00	-17.81	-3.94	3	Horizontal	311	1.00	-

BT-BR(1Mbps)

2441MHz_TX

07/06/2019

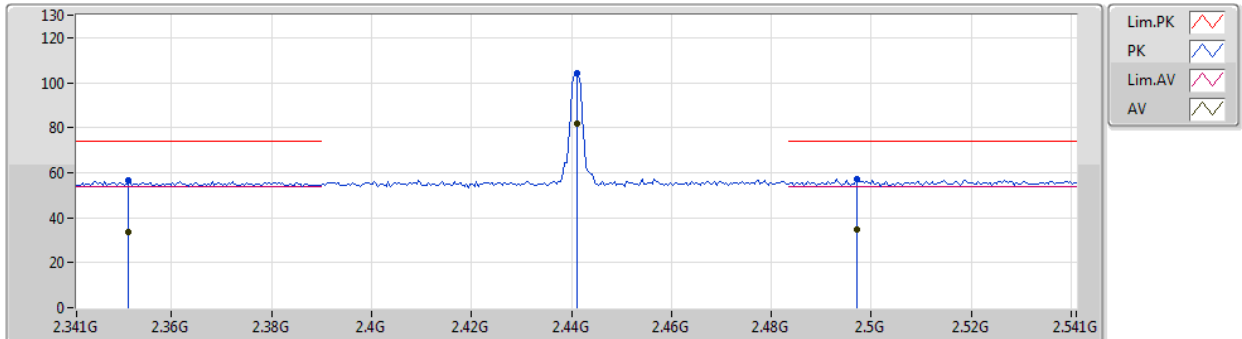


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3802G	34.34	54.00	-19.66	31.59	3	Vertical	327	2.78	-				
AV	2.441G	73.54	Inf	-Inf	31.55	3	Vertical	327	2.78	-				
AV	2.4954G	33.56	54.00	-20.44	31.57	3	Vertical	327	2.78	-				
PK	2.3802G	56.84	74.00	-17.16	31.59	3	Vertical	327	2.78	-				
PK	2.441G	96.04	Inf	-Inf	31.55	3	Vertical	327	2.78	-				
PK	2.4954G	56.06	74.00	-17.94	31.57	3	Vertical	327	2.78	-				

BT-BR(1Mbps)

2441MHz_TX

07/06/2019

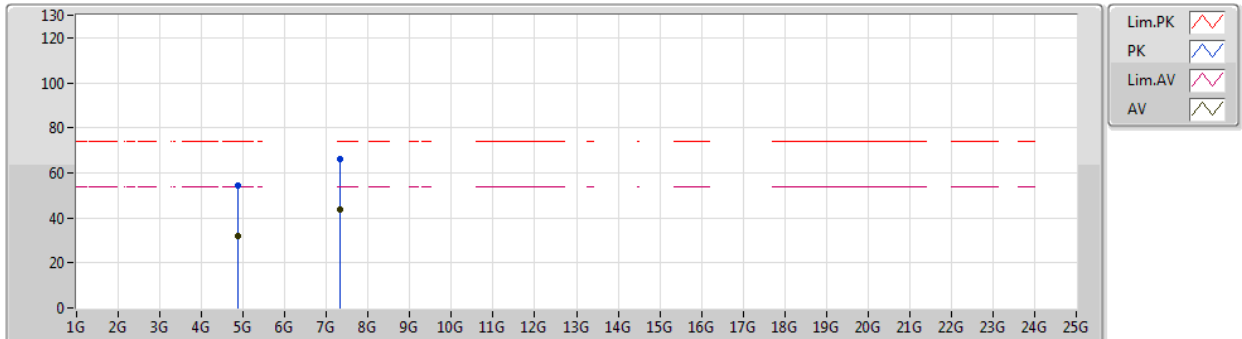


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3514G	33.84	54.00	-20.16	31.65	3	Horizontal	173	2.89	-				
AV	2.441G	81.59	Inf	-Inf	31.55	3	Horizontal	173	2.89	-				
AV	2.497G	34.75	54.00	-19.25	31.58	3	Horizontal	173	2.89	-				
PK	2.3514G	56.34	74.00	-17.66	31.65	3	Horizontal	173	2.89	-				
PK	2.441G	104.09	Inf	-Inf	31.55	3	Horizontal	173	2.89	-				
PK	2.497G	57.25	74.00	-16.75	31.58	3	Horizontal	173	2.89	-				

BT-BR(1Mbps)

2441MHz_TX

07/06/2019

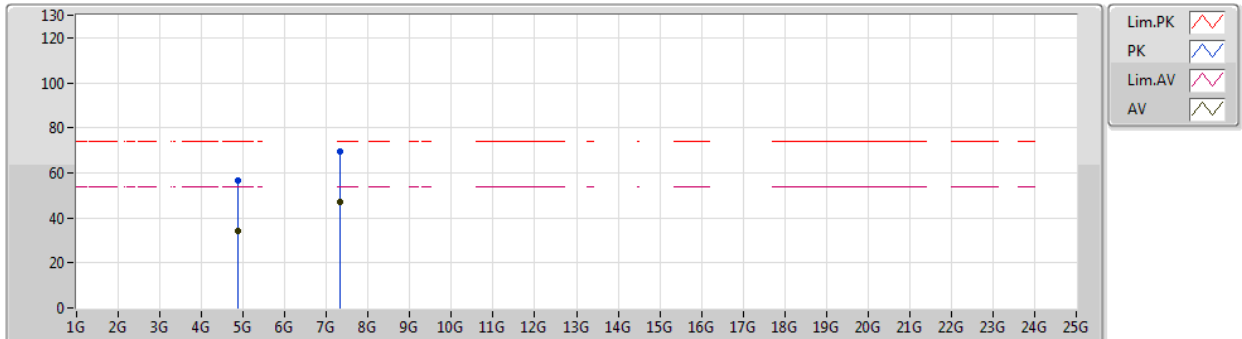


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.88218G	31.69	54.00	-22.31	1.82	3	Vertical	190	1.42	-				
AV	7.32246G	43.47	54.00	-10.53	7.50	3	Vertical	343	2.91	-				
PK	4.88218G	54.19	74.00	-19.81	1.82	3	Vertical	190	1.42	-				
PK	7.32246G	65.97	74.00	-8.03	7.50	3	Vertical	343	2.91	-				

BT-BR(1Mbps)

2441MHz_TX

07/06/2019

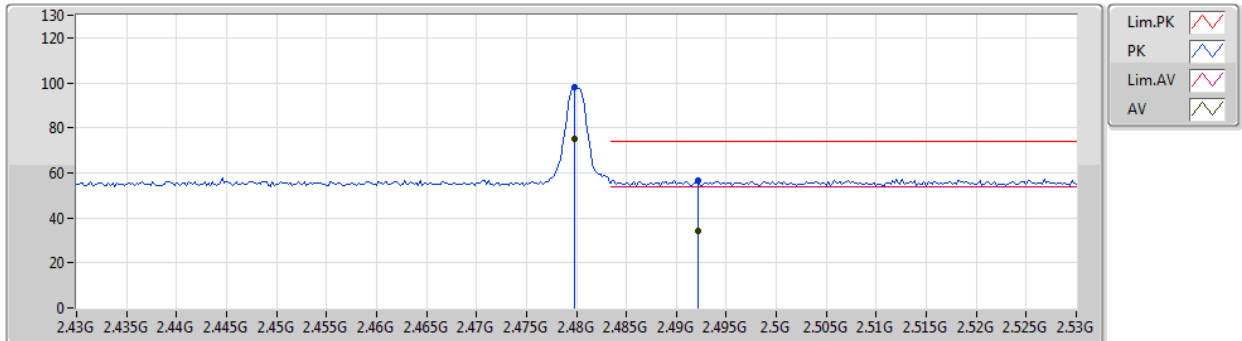


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.8817G	34.28	54.00	-19.72	1.82	3	Horizontal	139	1.08	-
AV	7.32246G	46.85	54.00	-7.15	7.50	3	Horizontal	43	1.03	-
PK	4.8817G	56.78	74.00	-17.22	1.82	3	Horizontal	139	1.08	-
PK	7.32246G	69.35	74.00	-4.65	7.50	3	Horizontal	43	1.03	-

BT-BR(1Mbps)

2480MHz_TX

07/06/2019

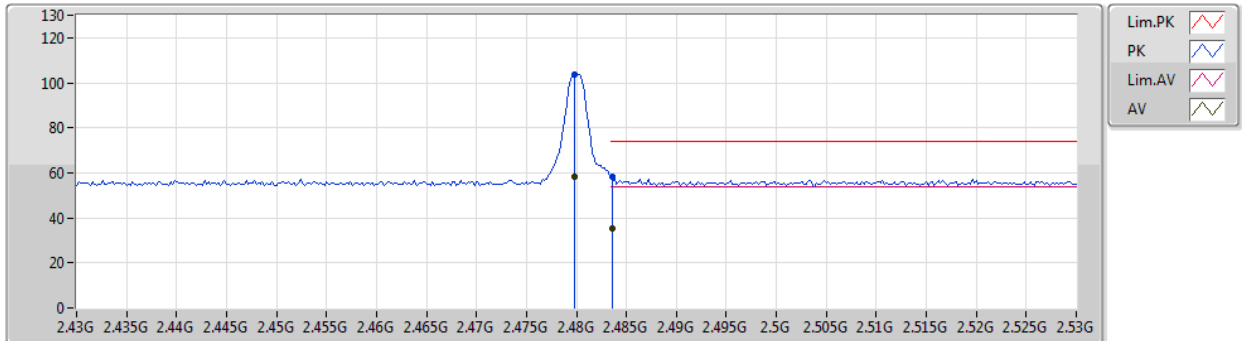


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4798G	75.31	Inf	-Inf	31.57	3	Vertical	111	2.75	-				
AV	2.4922G	34.16	54.00	-19.84	31.58	3	Vertical	111	2.75	-				
PK	2.4798G	97.81	Inf	-Inf	31.57	3	Vertical	111	2.75	-				
PK	2.4922G	56.66	74.00	-17.34	31.58	3	Vertical	111	2.75	-				

BT-BR(1Mbps)

2480MHz_TX

07/06/2019

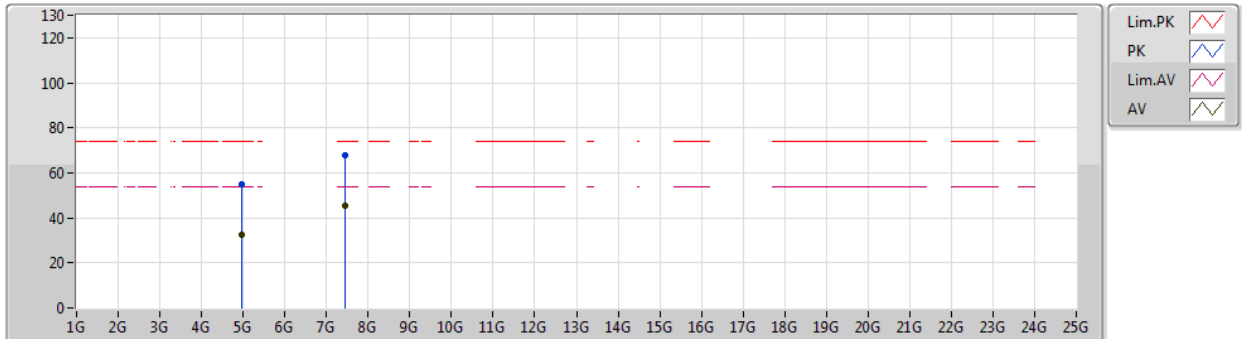


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.4798G	58.03	Inf	-Inf	31.57	3	Horizontal	172	2.84	-				
AV	2.48354G	35.54	54.00	-18.46	31.58	3	Horizontal	172	2.84	-				
PK	2.4798G	103.72	Inf	-Inf	31.57	3	Horizontal	172	2.84	-				
PK	2.48354G	58.04	74.00	-15.96	31.58	3	Horizontal	172	2.84	-				

BT-BR(1Mbps)

2480MHz_TX

07/06/2019

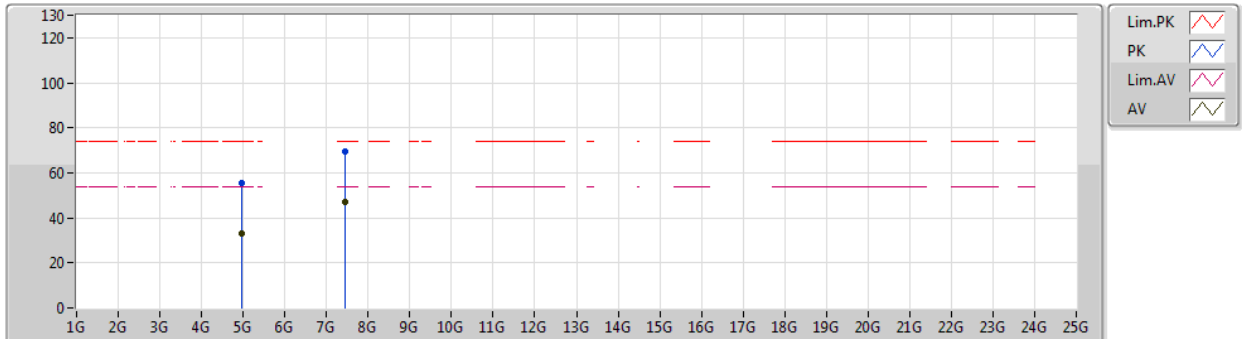


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.95958G	32.39	54.00	-21.61	2.02	3	Vertical	192	1.36	-
AV	7.4394G	45.13	54.00	-8.87	7.80	3	Vertical	295	2.84	-
PK	4.95958G	54.89	74.00	-19.11	2.02	3	Vertical	192	1.36	-
PK	7.4394G	67.63	74.00	-6.37	7.80	3	Vertical	295	2.84	-

BT-BR(1Mbps)

2480MHz_TX

07/06/2019

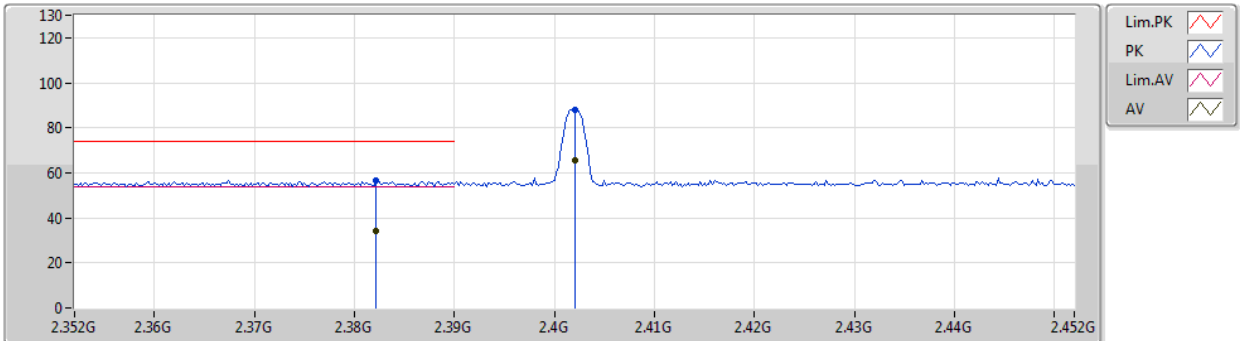


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.95971G	32.93	54.00	-21.07	-3.63	3	Horizontal	19	2.99	-
AV	7.4395G	46.86	54.00	-7.14	1.51	3	Horizontal	187	2.84	-
PK	4.95971G	55.43	74.00	-18.57	-3.63	3	Horizontal	19	2.99	-
PK	7.4395G	69.36	74.00	-4.64	1.51	3	Horizontal	187	2.84	-

BT-EDR(3Mbps)

2402MHz_TX

07/06/2019

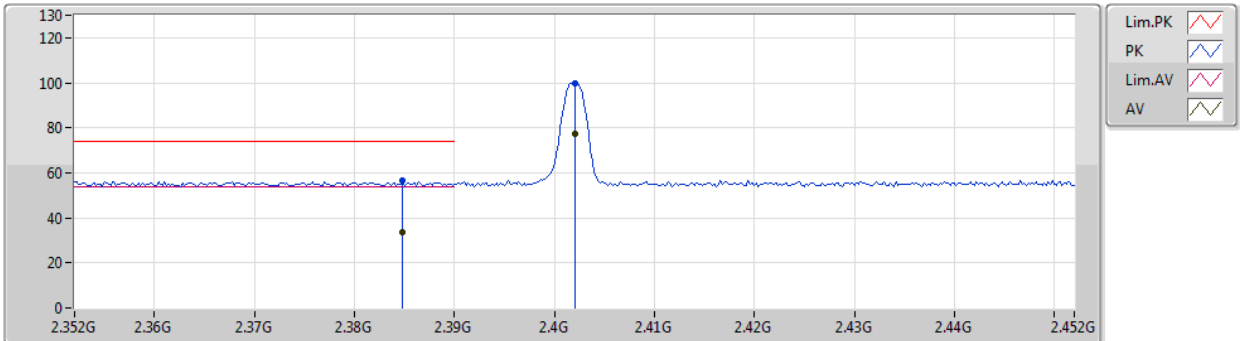


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3822G	34.15	54.00	-19.85	31.58	3	Vertical	40	1.01	-				
AV	2.402G	65.75	Inf	-Inf	31.54	3	Vertical	40	1.01	-				
PK	2.3822G	56.65	74.00	-17.35	31.58	3	Vertical	40	1.01	-				
PK	2.402G	88.25	Inf	-Inf	31.54	3	Vertical	40	1.01	-				

BT-EDR(3Mbps)

2402MHz_TX

07/06/2019

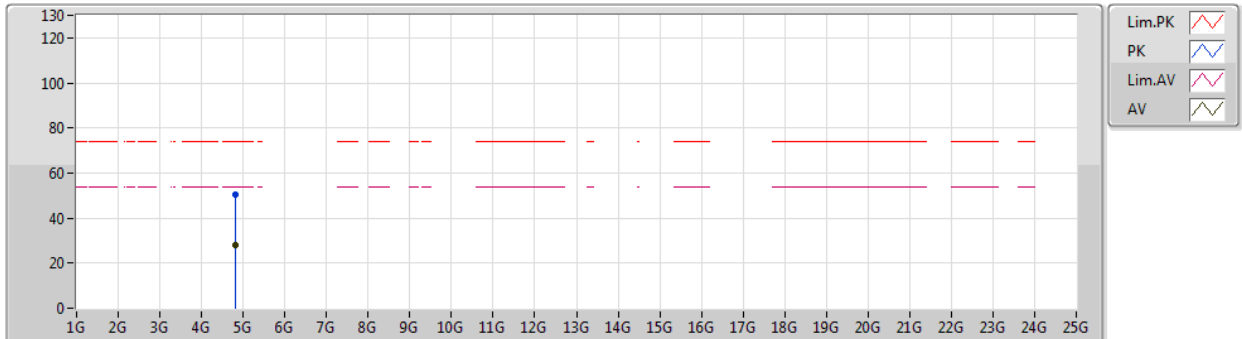


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	2.3848G	33.86	54.00	-20.14	31.57	3	Horizontal	177	2.99	-
AV	2.402G	77.49	Inf	-Inf	31.54	3	Horizontal	177	2.99	-
PK	2.3848G	56.36	74.00	-17.64	31.57	3	Horizontal	177	2.99	-
PK	2.402G	99.99	Inf	-Inf	31.54	3	Horizontal	177	2.99	-

BT-EDR(3Mbps)

2402MHz_TX

07/06/2019

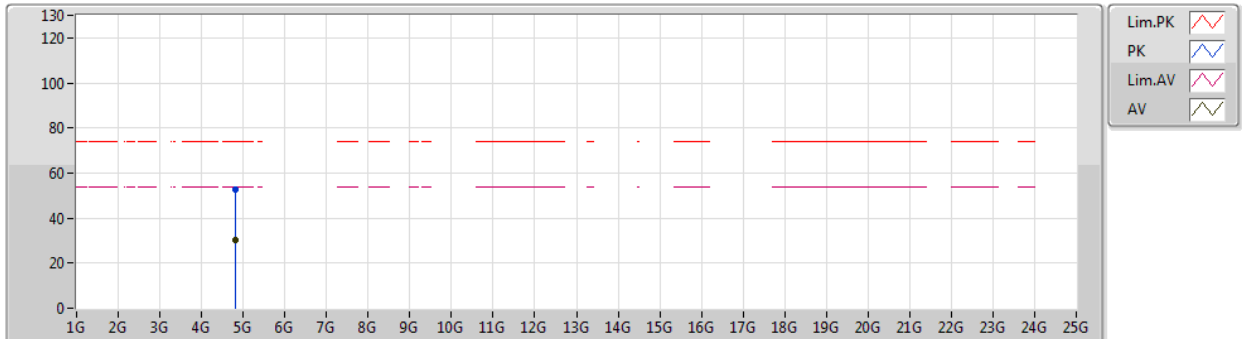


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.8038G	27.94	54.00	-26.06	-3.94	3	Vertical	137	2.62	-
PK	4.8038G	50.44	74.00	-23.56	-3.94	3	Vertical	137	2.62	-

BT-EDR(3Mbps)

2402MHz_TX

07/06/2019

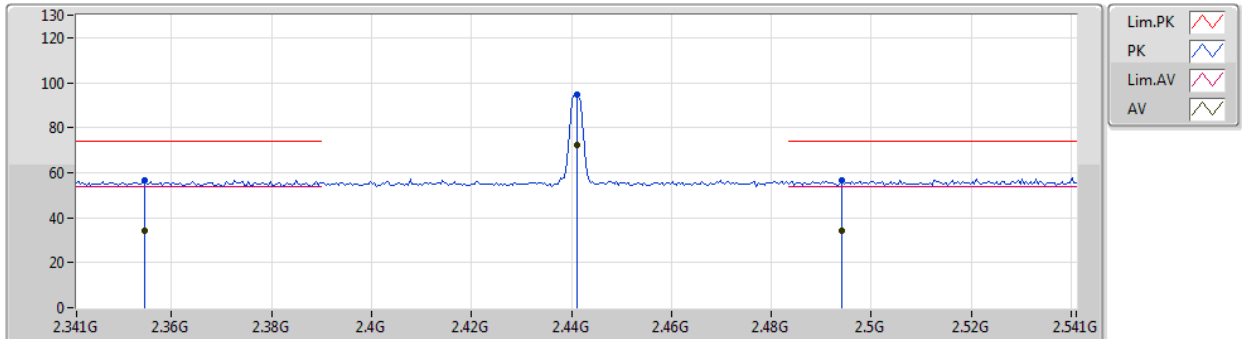


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.80355G	29.98	54.00	-24.02	-3.94	3	Horizontal	124	1.00	-
PK	4.80355G	52.48	74.00	-21.52	-3.94	3	Horizontal	124	1.00	-

BT-EDR(3Mbps)

2441MHz_TX

07/06/2019

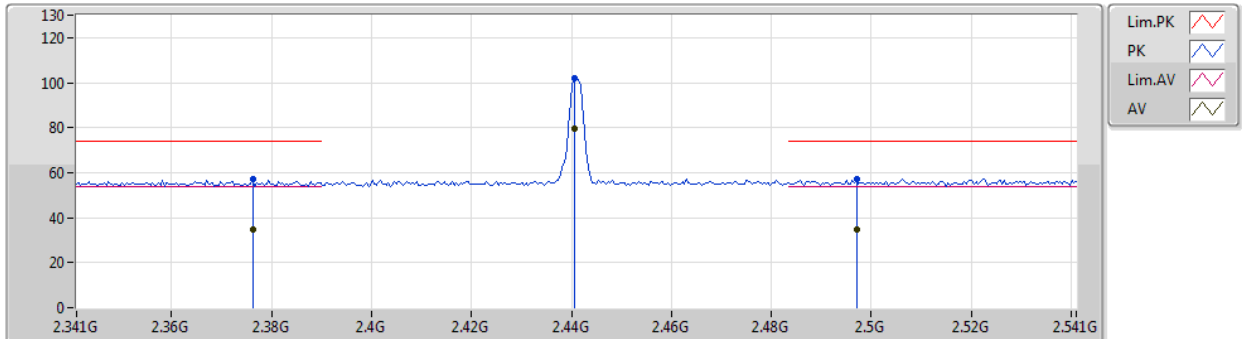


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3546G	34.09	54.00	-19.91	31.65	3	Vertical	107	2.86	-				
AV	2.441G	72.16	Inf	-Inf	31.55	3	Vertical	107	2.86	-				
AV	2.4942G	33.99	54.00	-20.01	31.58	3	Vertical	107	2.86	-				
PK	2.3546G	56.59	74.00	-17.41	31.65	3	Vertical	107	2.86	-				
PK	2.441G	94.66	Inf	-Inf	31.55	3	Vertical	107	2.86	-				
PK	2.4942G	56.49	74.00	-17.51	31.58	3	Vertical	107	2.86	-				

BT-EDR(3Mbps)

2441MHz_TX

07/06/2019

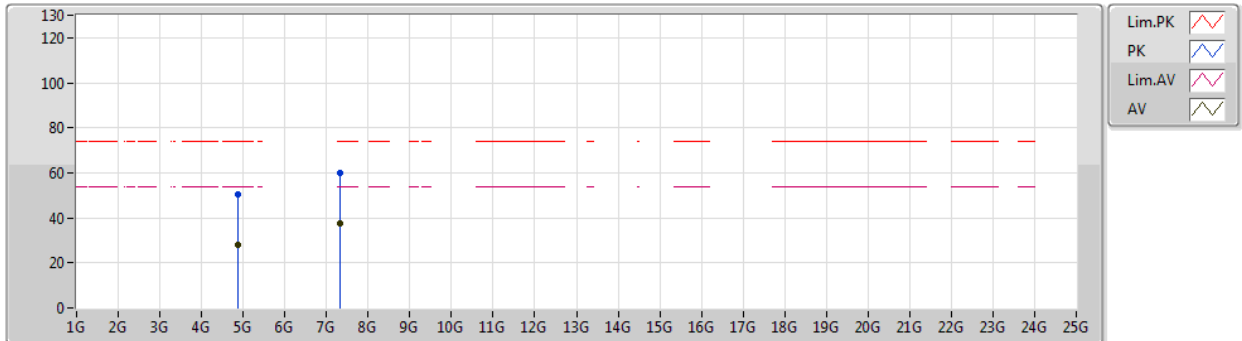


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.3762G	34.47	54.00	-19.53	31.60	3	Horizontal	173	2.89	-				
AV	2.4406G	79.39	Inf	-Inf	31.55	3	Horizontal	173	2.89	-				
AV	2.497G	34.69	54.00	-19.31	31.58	3	Horizontal	173	2.89	-				
PK	2.3762G	56.97	74.00	-17.03	31.60	3	Horizontal	173	2.89	-				
PK	2.4406G	101.89	Inf	-Inf	31.55	3	Horizontal	173	2.89	-				
PK	2.497G	57.19	74.00	-16.81	31.58	3	Horizontal	173	2.89	-				

BT-EDR(3Mbps)

2441MHz_TX

07/06/2019

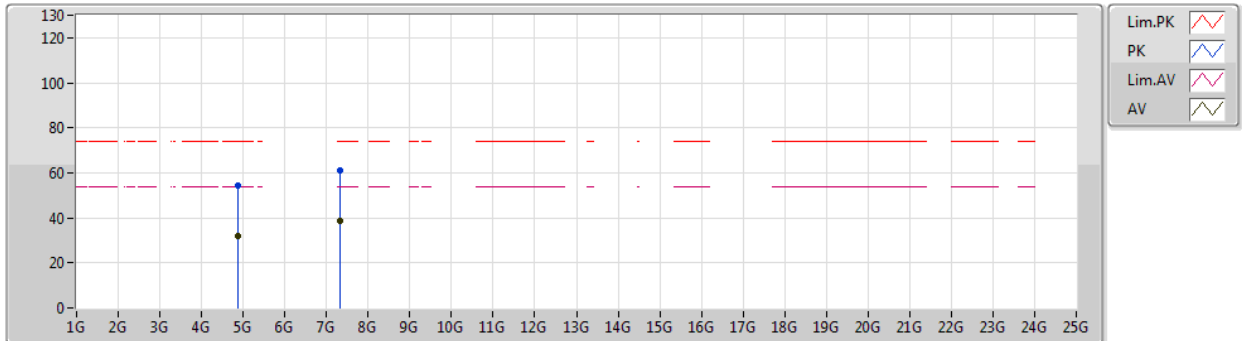


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	4.88174G	27.99	54.00	-26.01	-3.90	3	Vertical	140	1.00	-
AV	7.32297G	37.48	54.00	-16.52	1.44	3	Vertical	188	2.88	-
PK	4.88174G	50.49	74.00	-23.51	-3.90	3	Vertical	140	1.00	-
PK	7.32297G	59.98	74.00	-14.02	1.44	3	Vertical	188	2.88	-

BT-EDR(3Mbps)

2441MHz_TX

07/06/2019

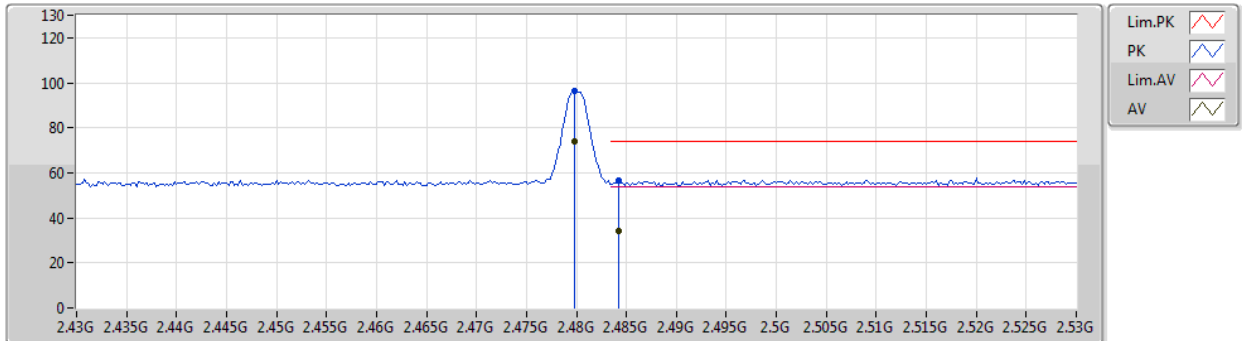


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.88179G	31.68	54.00	-22.32	-3.90	3	Horizontal	125	1.00	-				
AV	7.32292G	38.75	54.00	-15.25	1.44	3	Horizontal	189	1.04	-				
PK	4.88179G	54.18	74.00	-19.82	-3.90	3	Horizontal	125	1.00	-				
PK	7.32292G	61.25	74.00	-12.75	1.44	3	Horizontal	189	1.04	-				

BT-EDR(3Mbps)

2480MHz_TX

07/06/2019

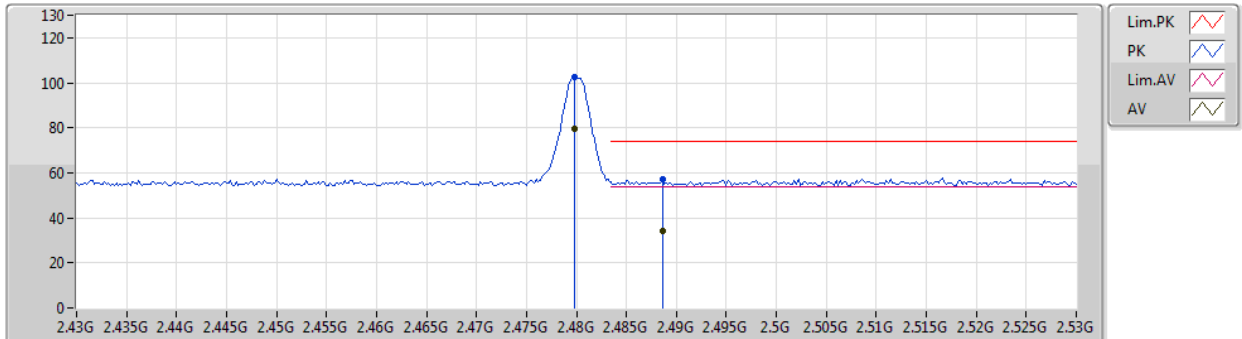


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	2.4798G	73.73	Inf	-Inf	31.57	3	Vertical	109	2.75	-
AV	2.4842G	33.99	54.00	-20.01	31.58	3	Vertical	109	2.75	-
PK	2.4798G	96.23	Inf	-Inf	31.57	3	Vertical	109	2.75	-
PK	2.4842G	56.49	74.00	-17.51	31.58	3	Vertical	109	2.75	-

BT-EDR(3Mbps)

2480MHz_TX

07/06/2019

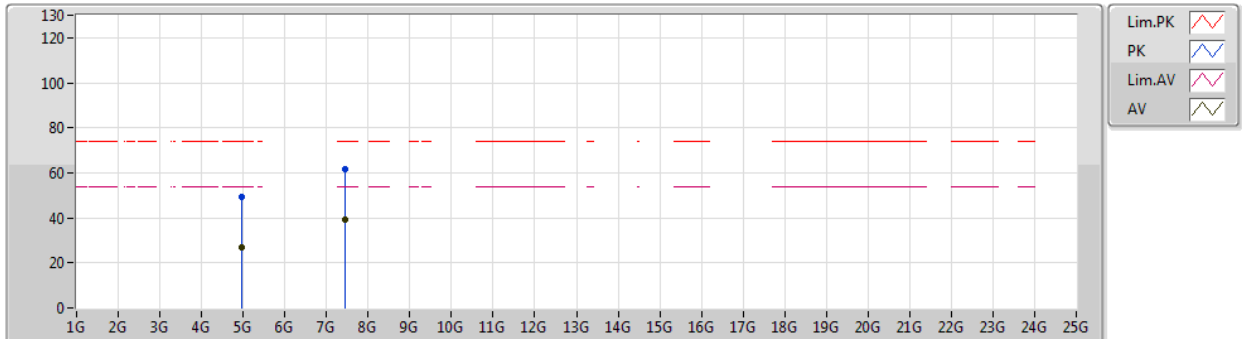


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
AV	2.4798G	79.78	Inf	-Inf	31.57	3	Horizontal	172	2.84	-
AV	2.4886G	34.46	54.00	-19.54	31.57	3	Horizontal	172	2.84	-
PK	2.4798G	102.28	Inf	-Inf	31.57	3	Horizontal	172	2.84	-
PK	2.4886G	56.96	74.00	-17.04	31.57	3	Horizontal	172	2.84	-

BT-EDR(3Mbps)

2480MHz_TX

07/06/2019

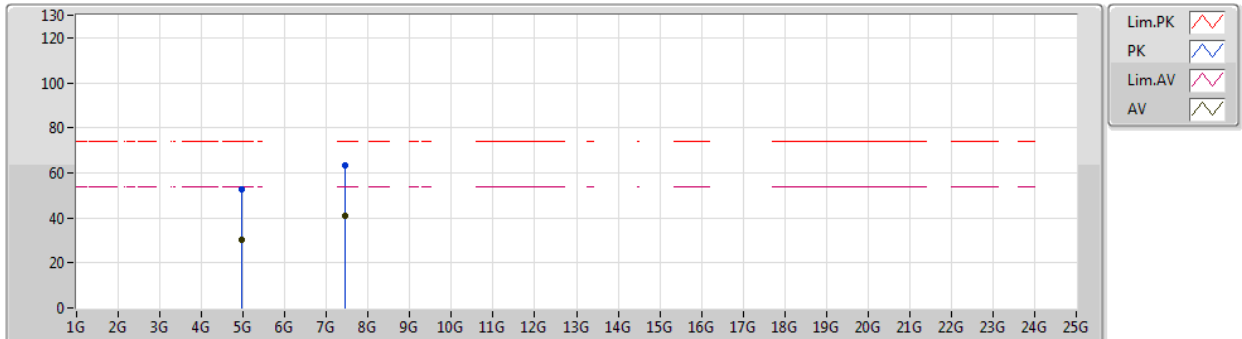


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment				
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.95969G	26.71	54.00	-27.29	-3.63	3	Vertical	131	2.51	-				
AV	7.43985G	39.06	54.00	-14.94	1.51	3	Vertical	193	2.93	-				
PK	4.95969G	49.21	74.00	-24.79	-3.63	3	Vertical	131	2.51	-				
PK	7.43985G	61.56	74.00	-12.44	1.51	3	Vertical	193	2.93	-				

BT-EDR(3Mbps)

2480MHz_TX

07/06/2019



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	4.96024G	30.45	54.00	-23.55	-3.63	3	Horizontal	163	1.01	-				
AV	7.43995G	40.72	54.00	-13.28	1.51	3	Horizontal	174	2.82	-				
PK	4.96024G	52.95	74.00	-21.05	-3.63	3	Horizontal	163	1.01	-				
PK	7.43995G	63.22	74.00	-10.78	1.51	3	Horizontal	174	2.82	-				



RSE RX below 1GHz Result

Appendix H.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	41.25M	33.23	40.00	-6.77	-13.70	3	Horizontal	360	1.00	-

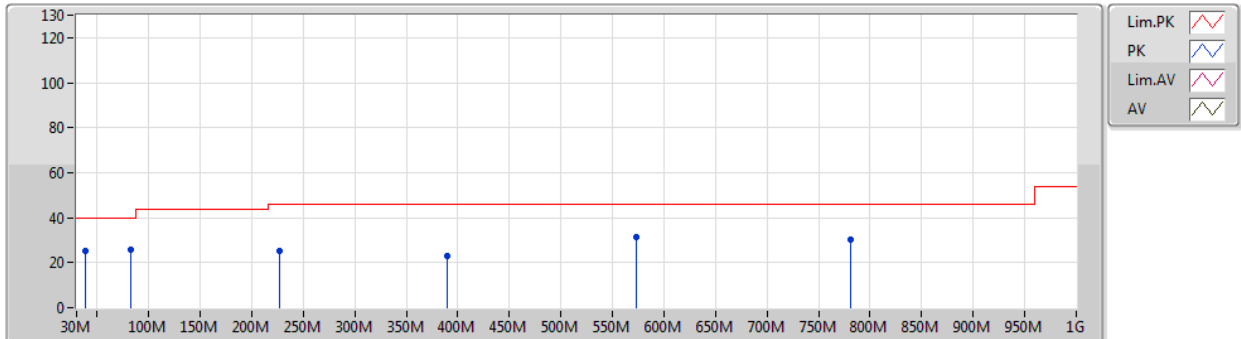
**Result**

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)	-	-	-	-	-	-	-	-	-	-	-	-
2441MHz_Adapter	Pass	PK	38.43M	24.98	40.00	-15.02	-12.30	3	Vertical	0	1.00	-
2441MHz_Adapter	Pass	PK	82.01M	25.53	40.00	-14.47	-18.47	3	Vertical	0	1.00	-
2441MHz_Adapter	Pass	PK	226.81M	25.36	46.00	-20.64	-15.34	3	Vertical	0	1.00	-
2441MHz_Adapter	Pass	PK	389.88M	23.17	46.00	-22.83	-8.92	3	Vertical	0	1.00	-
2441MHz_Adapter	Pass	PK	572.64M	31.39	46.00	-14.61	-4.89	3	Vertical	0	1.00	-
2441MHz_Adapter	Pass	PK	780.7M	30.02	46.00	-15.98	-2.87	3	Vertical	0	1.00	-
2441MHz_Adapter	Pass	PK	41.25M	33.23	40.00	-6.77	-13.70	3	Horizontal	360	1.00	-
2441MHz_Adapter	Pass	PK	82.01M	28.32	40.00	-11.68	-18.47	3	Horizontal	360	1.00	-
2441MHz_Adapter	Pass	PK	226.81M	36.11	46.00	-9.89	-15.34	3	Horizontal	360	1.00	-
2441MHz_Adapter	Pass	PK	389.88M	29.94	46.00	-16.06	-8.92	3	Horizontal	360	1.00	-
2441MHz_Adapter	Pass	PK	572.64M	35.64	46.00	-10.36	-4.89	3	Horizontal	360	1.00	-
2441MHz_Adapter	Pass	PK	753.99M	37.72	46.00	-8.28	-3.12	3	Horizontal	360	1.00	-

BT-BR(1Mbps)RX

2441MHz_Adapter

07/06/2019

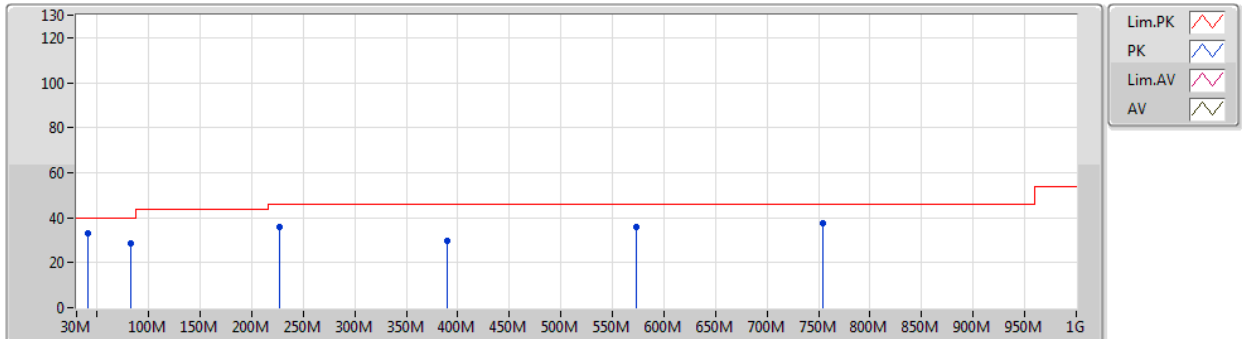


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	38.43M	24.98	40.00	-15.02	-12.30	3	Vertical	0	1.00	-
PK	82.01M	25.53	40.00	-14.47	-18.47	3	Vertical	0	1.00	-
PK	226.81M	25.36	46.00	-20.64	-15.34	3	Vertical	0	1.00	-
PK	389.88M	23.17	46.00	-22.83	-8.92	3	Vertical	0	1.00	-
PK	572.64M	31.39	46.00	-14.61	-4.89	3	Vertical	0	1.00	-
PK	780.7M	30.02	46.00	-15.98	-2.87	3	Vertical	0	1.00	-

BT-BR(1Mbps)RX

2441MHz_Adapter

07/06/2019



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment
PK	41.25M	33.23	40.00	-6.77	-13.70	3	Horizontal	360	1.00	-
PK	82.01M	28.32	40.00	-11.68	-18.47	3	Horizontal	360	1.00	-
PK	226.81M	36.11	46.00	-9.89	-15.34	3	Horizontal	360	1.00	-
PK	389.88M	29.94	46.00	-16.06	-8.92	3	Horizontal	360	1.00	-
PK	572.64M	35.64	46.00	-10.36	-4.89	3	Horizontal	360	1.00	-
PK	753.99M	37.72	46.00	-8.28	-3.12	3	Horizontal	360	1.00	-



RSE RX above 1GHz Result

Appendix H.2

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	AV	4.3942G	29.39	54.00	-24.61	0.76	3	Vertical	0	1.00	-

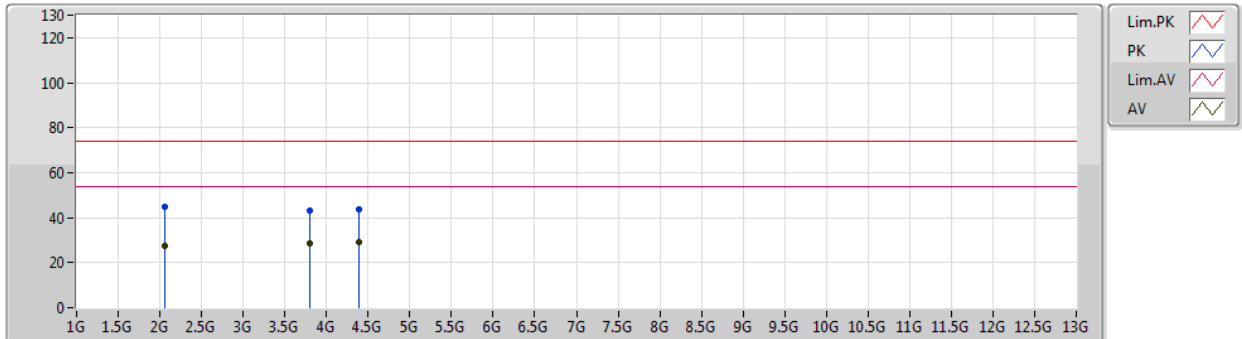
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2441MHz_RX	Pass	AV	2.06667G	27.26	54.00	-26.74	-5.40	3	Vertical	0	1.00	-
2441MHz_RX	Pass	AV	3.7971G	28.61	54.00	-25.39	-0.55	3	Vertical	0	1.00	-
2441MHz_RX	Pass	AV	4.3942G	29.39	54.00	-24.61	0.76	3	Vertical	0	1.00	-
2441MHz_RX	Pass	PK	2.06667G	45.05	74.00	-28.95	-5.40	3	Vertical	0	1.00	-
2441MHz_RX	Pass	PK	3.7971G	43.39	74.00	-30.61	-0.55	3	Vertical	0	1.00	-
2441MHz_RX	Pass	PK	4.3942G	43.65	74.00	-30.35	0.76	3	Vertical	0	1.00	-
2441MHz_RX	Pass	AV	1.75652G	26.15	54.00	-27.85	-6.29	3	Horizontal	360	1.00	-
2441MHz_RX	Pass	AV	3.339G	25.34	54.00	-28.66	-1.87	3	Horizontal	360	1.00	-
2441MHz_RX	Pass	AV	4.5913G	28.68	54.00	-25.32	1.12	3	Horizontal	360	1.00	-
2441MHz_RX	Pass	PK	1.75652G	40.82	74.00	-33.18	-6.29	3	Horizontal	360	1.00	-
2441MHz_RX	Pass	PK	3.339G	41.99	74.00	-32.01	-1.87	3	Horizontal	360	1.00	-
2441MHz_RX	Pass	PK	4.5913G	44.57	74.00	-29.43	1.12	3	Horizontal	360	1.00	-

BT-BR(1Mbps)RX

2441MHz_RX

07/06/2019

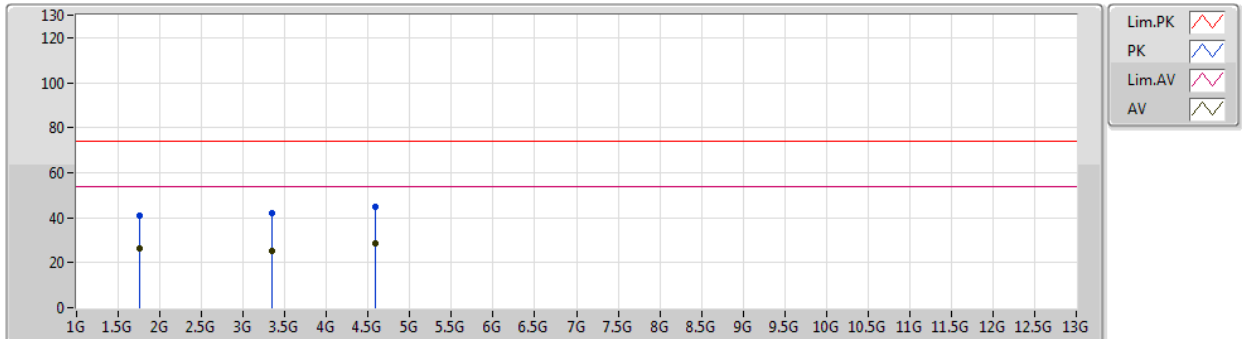


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	2.06667G	27.26	54.00	-26.74	-5.40	3	Vertical	0	1.00	-				
AV	3.7971G	28.61	54.00	-25.39	-0.55	3	Vertical	0	1.00	-				
AV	4.3942G	29.39	54.00	-24.61	0.76	3	Vertical	0	1.00	-				
PK	2.06667G	45.05	74.00	-28.95	-5.40	3	Vertical	0	1.00	-				
PK	3.7971G	43.39	74.00	-30.61	-0.55	3	Vertical	0	1.00	-				
PK	4.3942G	43.65	74.00	-30.35	0.76	3	Vertical	0	1.00	-				

BT-BR(1Mbps)RX

2441MHz_RX

07/06/2019



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment				
AV	1.75652G	26.15	54.00	-27.85	-6.29	3	Horizontal	360	1.00	-				
AV	3.339G	25.34	54.00	-28.66	-1.87	3	Horizontal	360	1.00	-				
AV	4.5913G	28.68	54.00	-25.32	1.12	3	Horizontal	360	1.00	-				
PK	1.75652G	40.82	74.00	-33.18	-6.29	3	Horizontal	360	1.00	-				
PK	3.339G	41.99	74.00	-32.01	-1.87	3	Horizontal	360	1.00	-				
PK	4.5913G	44.57	74.00	-29.43	1.12	3	Horizontal	360	1.00	-				