

FCC Test Report

FCC ID : 2AFZZ-XMD2TG
Equipment : Mobile Phone
Brand Name : MI
Model Name : M1808D2TG
Applicant : Xiaomi Communications Co., Ltd.
The Rainbow City of China Resources, NO.68, Qinghe
Middle Street, Haidian District, Beijing, China
Manufacturer : Xiaomi Communications Co., Ltd.
The Rainbow City of China Resources, NO.68, Qinghe
Middle Street, Haidian District, Beijing, China
Standard : 47 CFR FCC Part 15.247

The product was received on Aug. 20, 2018, and testing was started from Aug. 21, 2018 and completed on Sep. 04, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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


Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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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

Reviewed by: Sam Tsai

Report Producer: Michelle Tsai

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.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	-	-	PIFA	mini Murata	-1.04

1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
BT-BR(1Mbps)	0.462	3.354	2.888m	1k
BT-EDR(2Mbps)	0.496	3.045	2.889m	1k
BT-EDR(3Mbps)	0.481	3.179	2.891m	1k

1.1.5 Table for Multiple Listing

There are two sample of EUT.

Sample No.	Description
Sample 1	RAM 6, EMMC 128G
Sample 2	RAM 4, EMMC 64G

Note: Sample1 configuration was measured during the test.

1.2 Testing Applied Standards

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

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

1.3 Testing Location Information

Testing Location			
<input checked="" type="checkbox"/>	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.			
<input type="checkbox"/>	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
RF Conducted	TH01-HY	Barry	23.5°C / 65%	21/Aug/2018
Radiated	03CH02-HY	Lego	24°C / 51%	22/Aug/2018
AC Conduction	CO04-HY	Terry	25.8°C / 57%	04/Sep/2018

1.4 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	110V

2.2 Test Channel Mode




Test Software	CIT
---------------	-----

Mode	PowerSetting
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/CRX
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.		
Operating Mode < 1GHz	CTX/CRX		
1	Adapter Mode		
Operating Mode > 1GHz	CTX/CRX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	

2.4 Accessories and Support Equipment

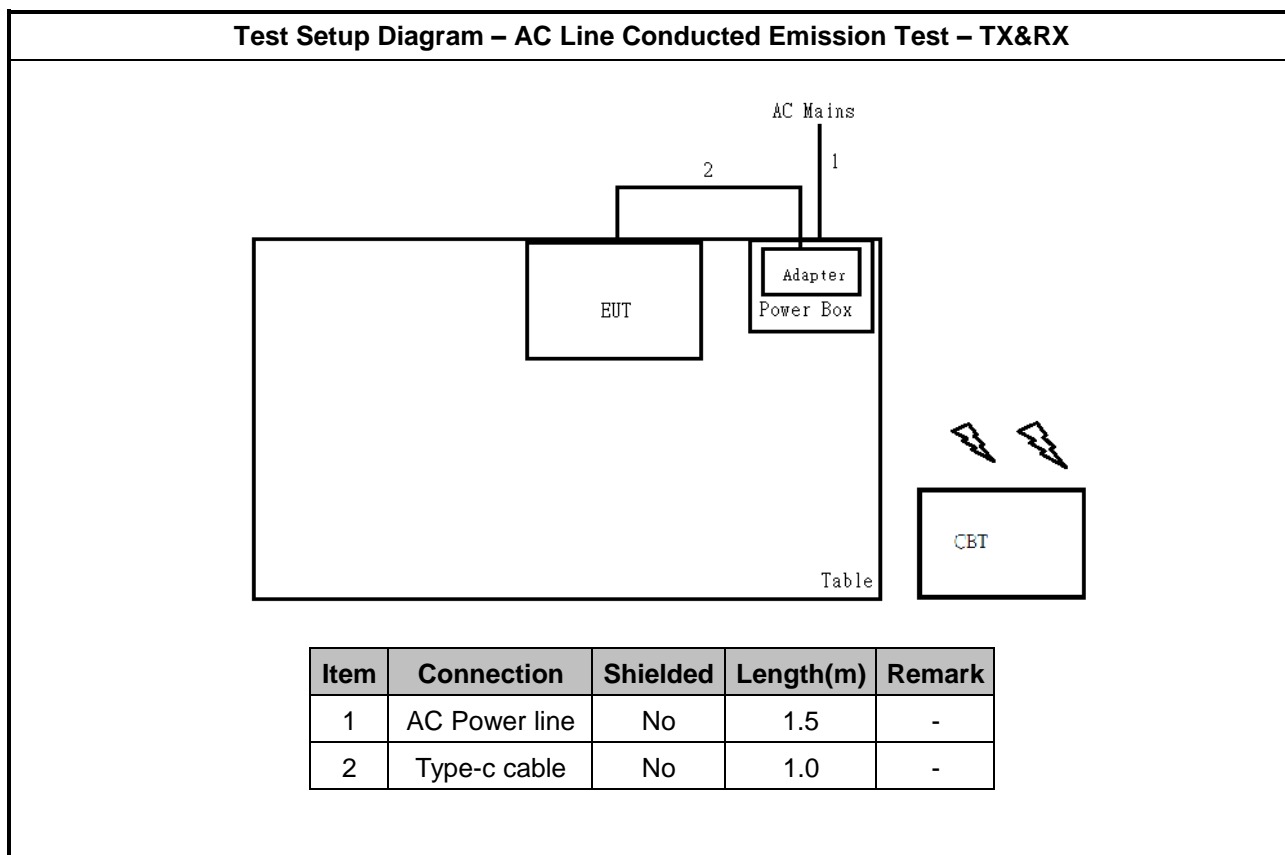
Accessories				
AC Adapter 1	Brand Name	XIAOMI	Model Name	MDY-08-EZ
	Power Rating	I/P: 100 - 240 Vac, 350 mA, O/P: 5 Vdc, 2000 mA		
AC Adapter 2	Brand Name	XIAOMI	Model Name	MDY-08-EZ
	Power Rating	I/P: 100 - 240 Vac, 350 mA, O/P: 5 Vdc, 2000 mA		
Battery	Brand Name	MI	Model Name	BM3J
	Power Rating	3.85 / 4.4 Vdc, 3250/3350 mAh		
USB Cable 1	Brand Name	MI	Model Name	L23312
	Signal Line	1.0 meter, non-shielded cable, without ferrite core		
USB Cable 2	Brand Name	MI	Model Name	K23312
	Signal Line	1.0 meter, non-shielded cable, without ferrite core		
Type C to Earphone Cable 1	Brand Name	MI	Model Name	K41121
	Signal Line	0.09 meter, non-shielded cable, without ferrite core		
Type C to Earphone Cable 2	Brand Name	MI	Model Name	D41121
	Signal Line	0.09 meter, non-shielded cable, without ferrite core		
Type C to Earphone Cable 3	Brand Name	MI	Model Name	B41121
	Signal Line	0.09 meter, non-shielded cable, without ferrite core		
Type C to Earphone Cable 4	Brand Name	MI	Model Name	Y41121
	Signal Line	0.09 meter, non-shielded cable, without ferrite core		
Type C to Earphone Cable 5	Brand Name	MI	Model Name	K41121
	Signal Line	0.09 meter, non-shielded cable, without ferrite core		

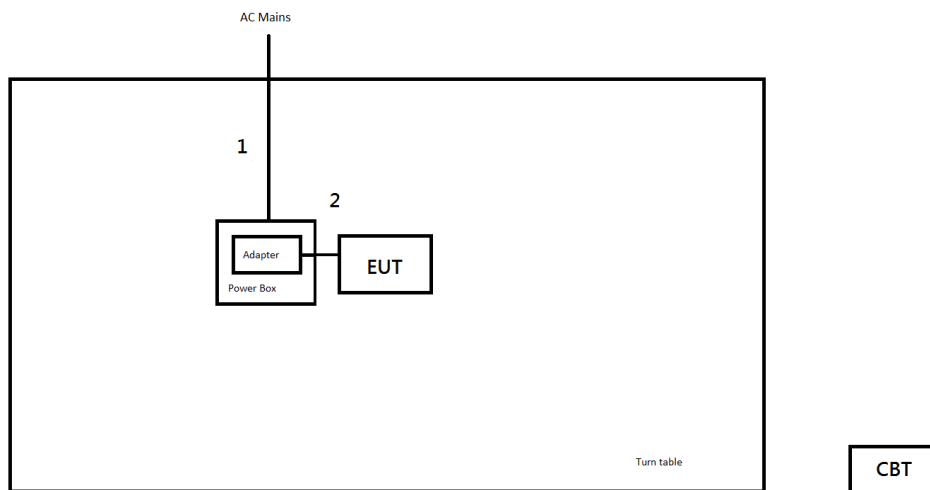
Reminder: Regarding to more detail and other information, please refer to user manual.

Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for Notebook	DELL	HA65NM130	DoC
3	Bluetooth Tester	R&S	CBT	-

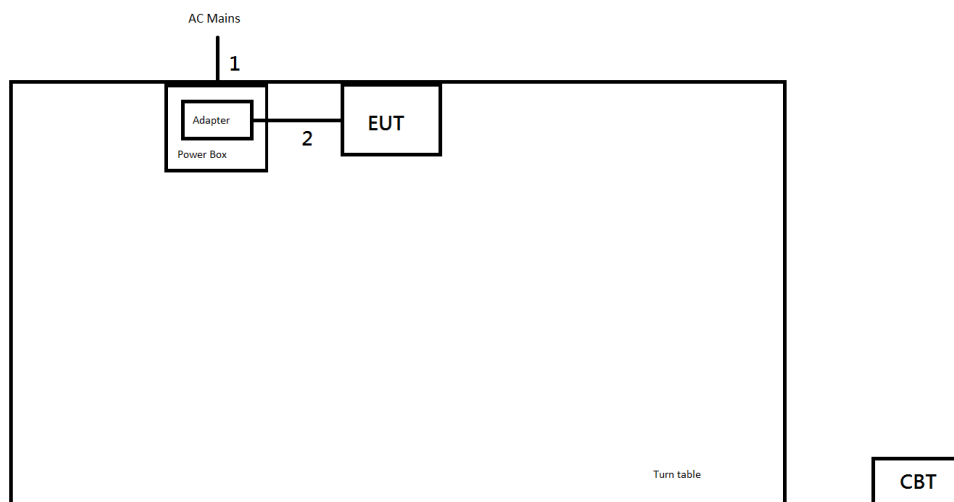
Support Equipment – AC Conduction and Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Bluetooth Tester	R&S	CBT	-

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test – TX Mode


Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.5	-
2	Type-c cable	No	1.0	-

Test Setup Diagram - Radiated Test – RX Mode


Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.5	-
2	Type-c cable	No	1.0	-

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.

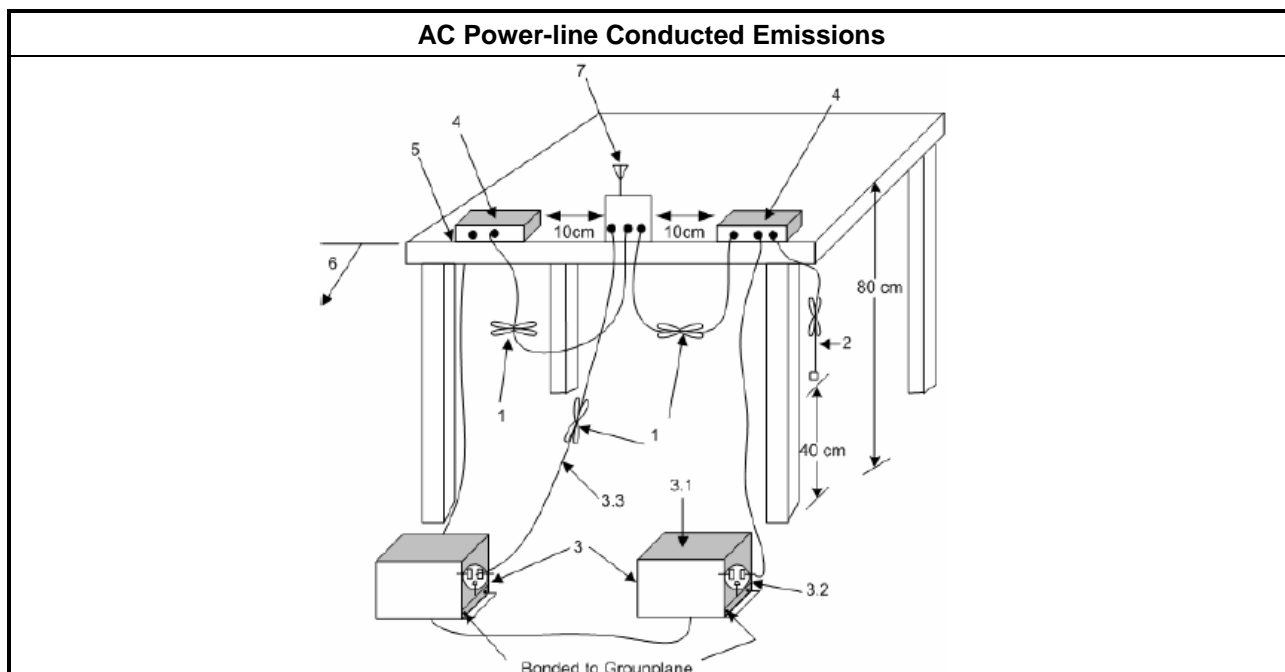
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> 2400-2483.5 MHz Band: 	
	<ul style="list-style-type: none"> $N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	<ul style="list-style-type: none"> $75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 kHz).
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

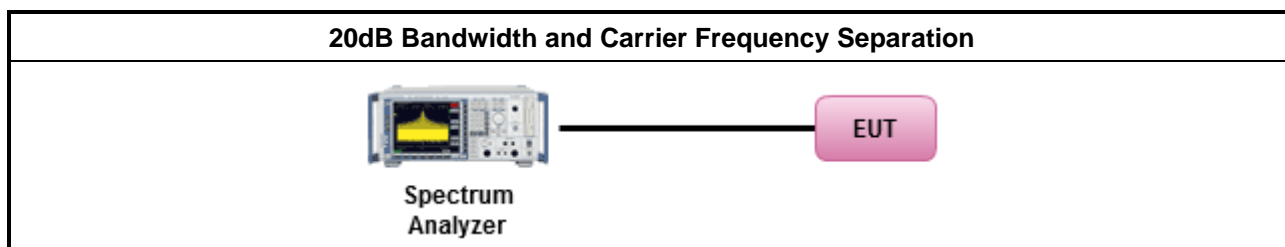
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 6.9.2 for 20 dB bandwidth measurement.
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> 2400-2483.5 MHz Band: 	
	<ul style="list-style-type: none"> $N \geq 75$; Power 30dBm; EIRP 36dBm
	<ul style="list-style-type: none"> $75 > N \geq 15$; Power 21dBm; EIRP 27dBm
N: Number of Hopping Frequencies	

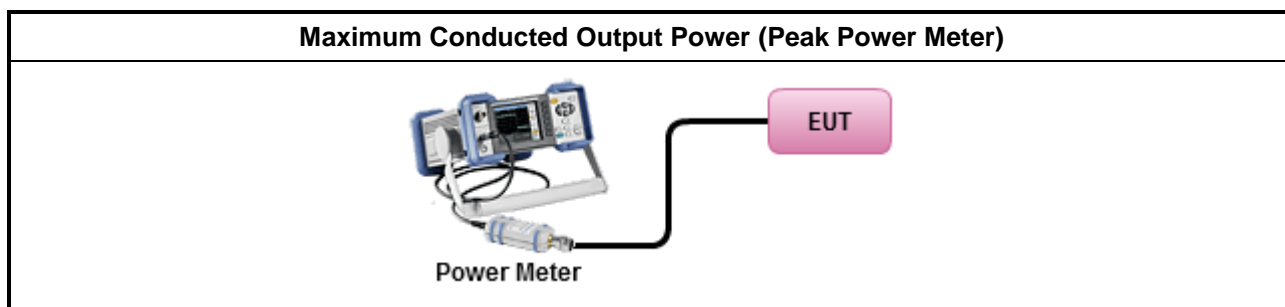
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method
<ul style="list-style-type: none"> 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

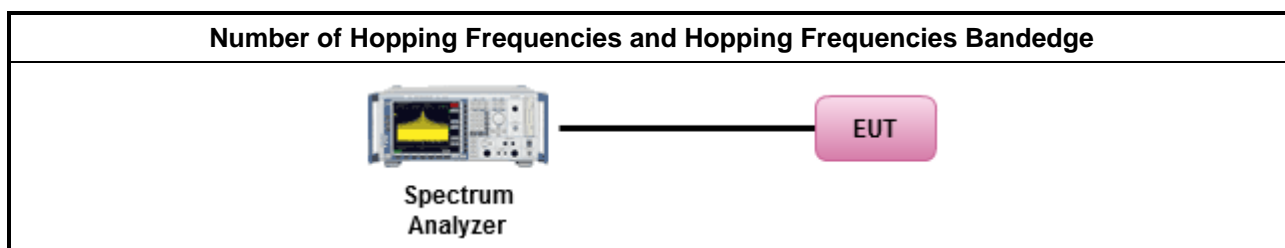
3.4.3 Measuring Instruments

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	
<ul style="list-style-type: none"> 2400-2483.5 MHz Band: 	
	<ul style="list-style-type: none"> $N \geq 75$; 0.4s in $N \times 0.4$ period
	<ul style="list-style-type: none"> $75 > N \geq 15$; 0.4s in $N \times 0.4$ period
N: Number of Hopping Frequencies	

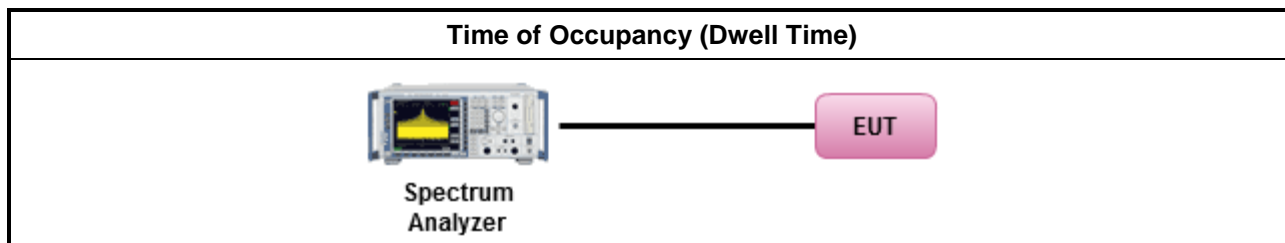
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 7.8.4 for dwell time measurement. 	
<ul style="list-style-type: none"> 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. 	
	<ul style="list-style-type: none"> 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.	

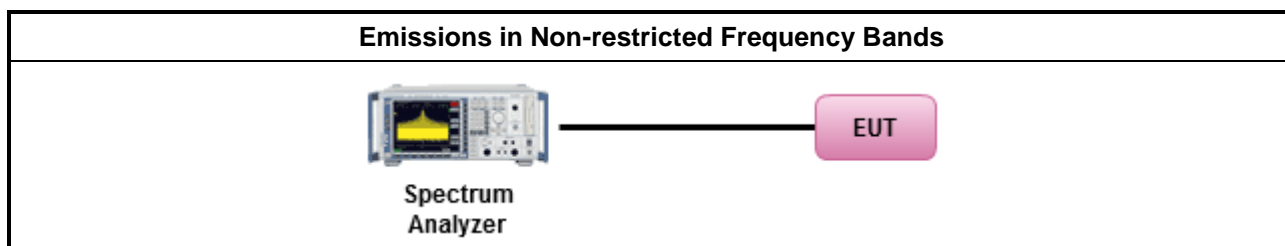
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method
<ul style="list-style-type: none"> 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.

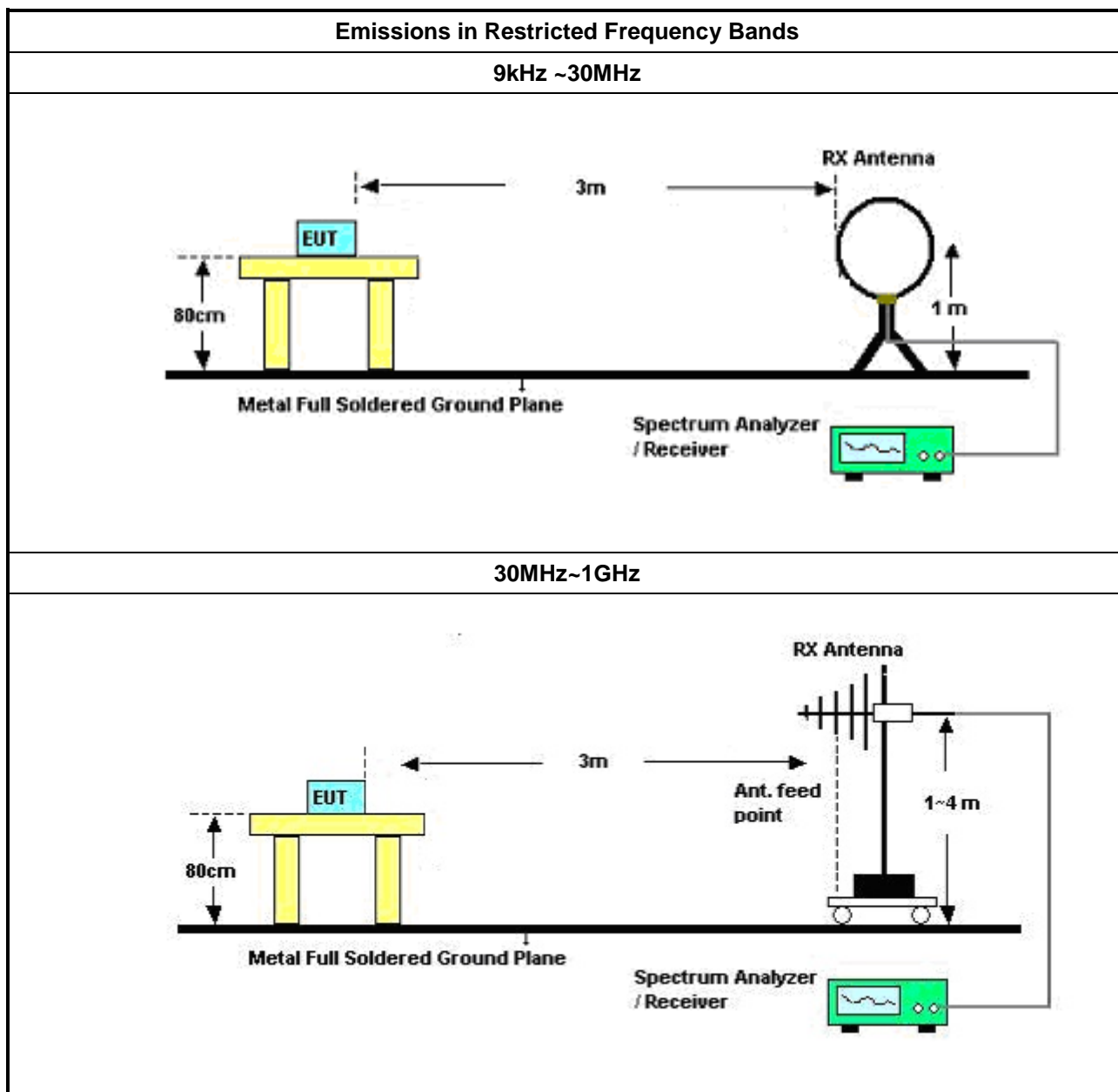
3.7.2 Measuring Instruments

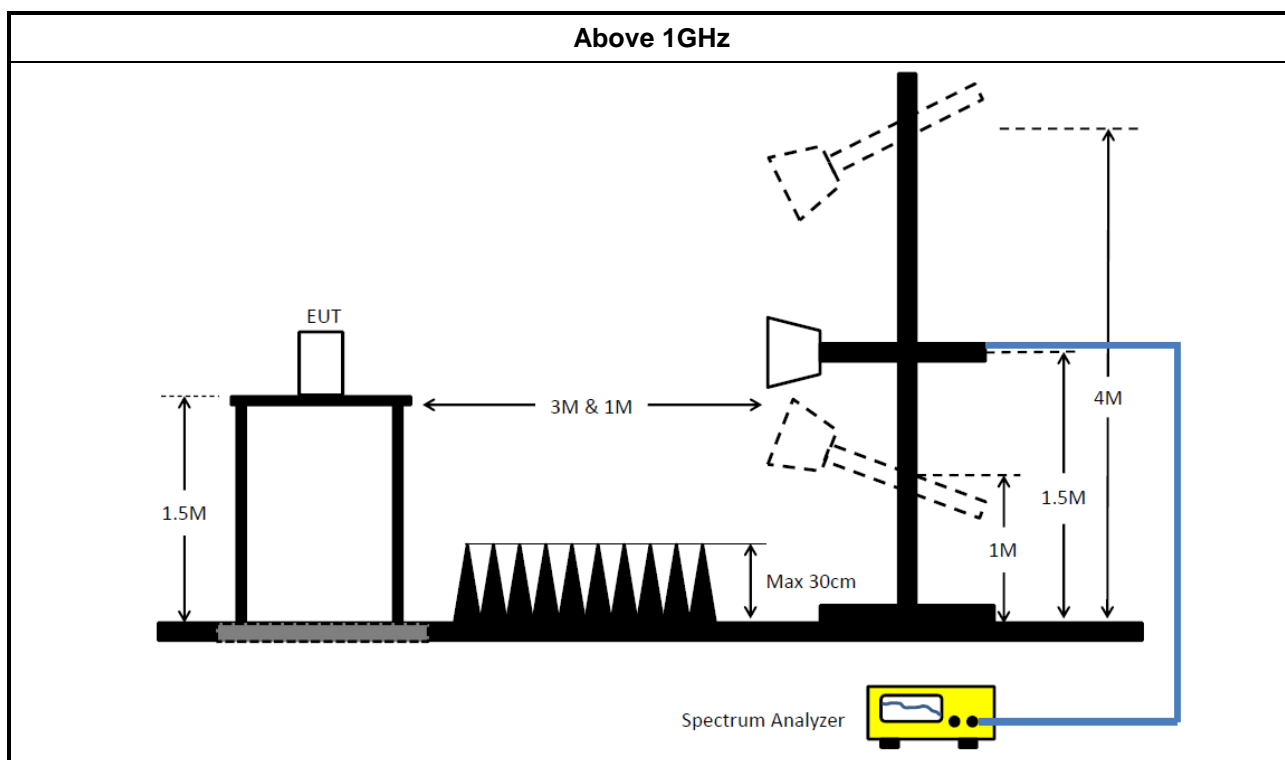
Refer a test equipment and calibration data table in this test report.

3.7.3 Test Procedures

Test Method	
<ul style="list-style-type: none">▪ The average emission levels shall be measured in [hopping duty factor].	
<ul style="list-style-type: none">▪ Refer as ANSI C63.10; clause 6.9.2.2 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
<ul style="list-style-type: none">▪ For the transmitter unwanted emissions shall be measured using following options below:	
	<ul style="list-style-type: none">▪ Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.
	<ul style="list-style-type: none">▪ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.
	<ul style="list-style-type: none">▪ 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	ESR	102051	9KHz ~ 3.6GHz	03/May/2018	02/May/2019
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	17/Nov/2017	16/Nov/2018
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	06/Oct/2017	05/Oct/2018
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/2017	11/Oct/2018

NCR : Non-Calibration Require.

Instrument for Radiated Test

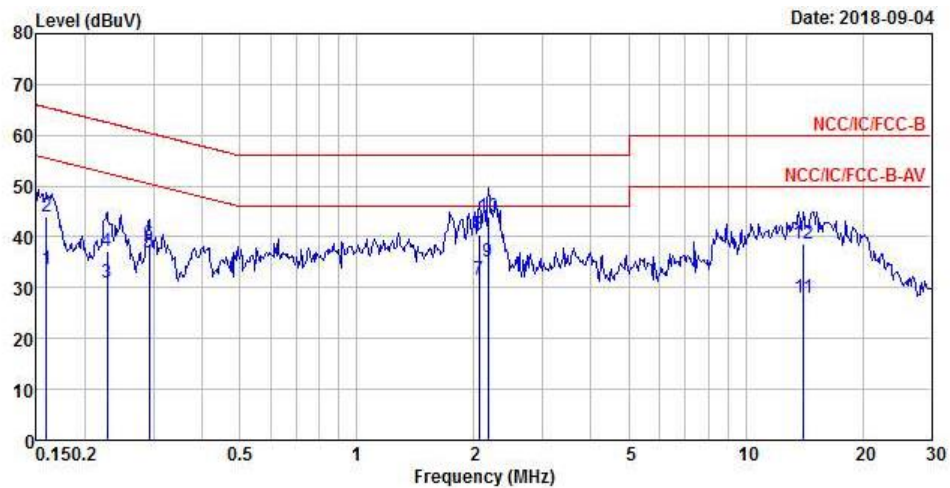
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	20/Oct/2017	19/Oct/2018
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	27/Oct/2017	26/Oct/2018
Amplifier	Agilent	8447D	2944A11149	100kHz ~ 1.3GHz	27Jul/2018	02/Jul/2019
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	28/Sep/2017	27/Sep/2018
Spectrum Analyzer	Rohde & Schwarz	FSP40	100593	9KHz - 40GHz	12/Dec/2017	11/Dec/2018
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100354	9kHz ~ 2.75GHz	08/Dec/2017	07/Dec/2018
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	19/Jan/2018	18/Jan/2019
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	19/Jan/2018	18/Jan/2019
Bilog Antenna	SCHAFFNER	CBL 6112B	2723	30MHz ~ 1GHz	09/Sep/2017	08/Sep/2018
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA 9120 D 1531	1GHz ~ 18GHz	18/Apr/ 2018	17/Apr/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	29/Mar/2018	28/Mar/2019

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	29/Dec/2017	28/Dec/2018
Signal Generator	R&S	SMB100A	175727	100kHz~40GHz	26/Oct/2017	25/Oct/2018
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Adapter Mode ; TX		



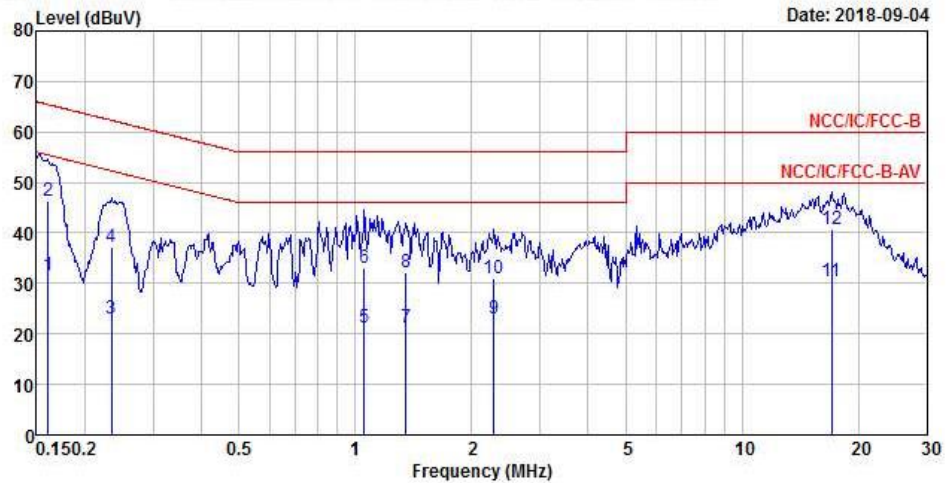
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.16	33.61	-21.91	55.52	23.95	9.63	0.03	Average
2	0.16	43.97	-21.55	65.52	34.31	9.63	0.03	QP
3	0.23	31.08	-21.44	52.52	21.44	9.62	0.02	Average
4	0.23	37.21	-25.31	62.52	27.57	9.62	0.02	QP
5	0.29	36.97	-13.49	50.46	27.31	9.61	0.05	Average
6	0.29	38.53	-21.93	60.46	28.87	9.61	0.05	QP
7	2.06	31.57	-14.43	46.00	21.94	9.63	0.00	Average
8	2.06	40.35	-15.65	56.00	30.72	9.63	0.00	QP
9 MAX	2.18	35.10	-10.90	46.00	25.46	9.63	0.01	Average
10	2.18	43.95	-12.05	56.00	34.31	9.63	0.01	QP
11	14.06	28.14	-21.86	50.00	18.41	9.70	0.03	Average
12	14.06	38.62	-21.38	60.00	28.89	9.70	0.03	QP

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

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

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Adapter Mode ; TX		

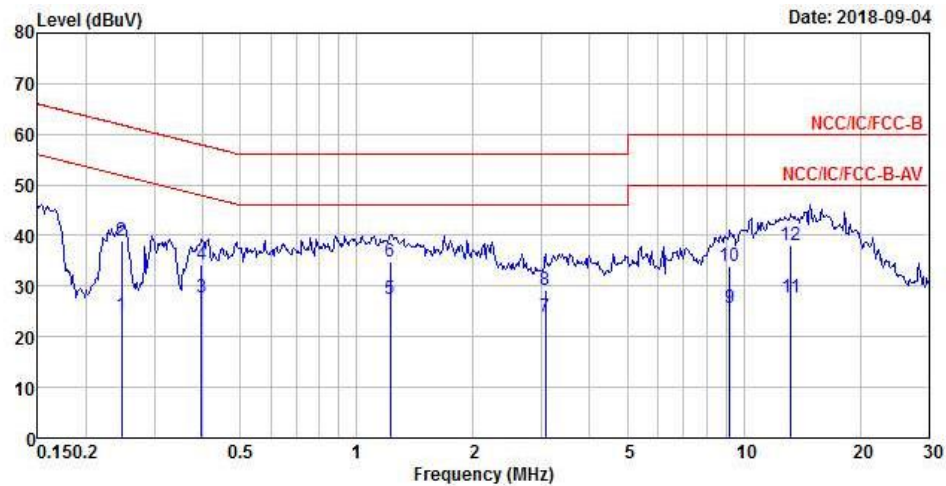


	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.16	31.60	-23.83	55.43	21.95	9.62	0.03	Average
2 MAX	0.16	46.39	-19.04	65.43	36.74	9.62	0.03	QP
3	0.23	22.99	-29.31	52.30	13.35	9.62	0.02	Average
4	0.23	37.13	-25.17	62.30	27.49	9.62	0.02	QP
5	1.05	21.27	-24.73	46.00	11.66	9.61	0.00	Average
6	1.05	32.92	-23.08	56.00	23.31	9.61	0.00	QP
7	1.35	21.11	-24.89	46.00	11.50	9.61	0.00	Average
8	1.35	32.03	-23.97	56.00	22.42	9.61	0.00	QP
9	2.28	22.96	-23.04	46.00	13.32	9.62	0.02	Average
10	2.28	30.93	-25.07	56.00	21.29	9.62	0.02	QP
11	17.02	30.53	-19.47	50.00	20.81	9.63	0.09	Average
12	17.02	40.65	-19.35	60.00	30.93	9.63	0.09	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Adapter Mode ; RX		



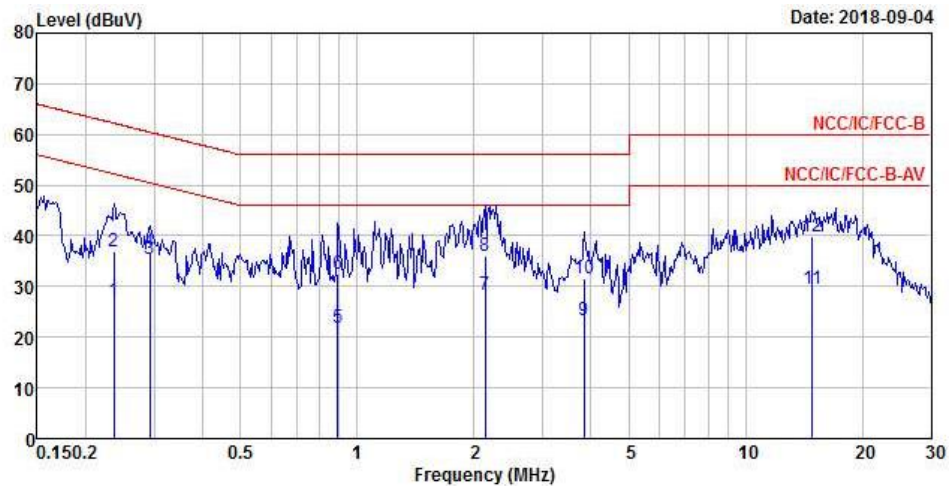
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.25	24.15	-27.71	51.86	14.50	9.62	0.03	Average
2	0.25	39.01	-22.85	61.86	29.36	9.62	0.03	QP
3	0.40	27.71	-20.19	47.90	18.00	9.61	0.10	Average
4	0.40	34.11	-23.79	57.90	24.40	9.61	0.10	QP
5 MAX	1.22	27.58	-18.42	46.00	17.96	9.62	0.00	Average
6	1.22	34.77	-21.23	56.00	25.15	9.62	0.00	QP
7	3.07	23.90	-22.10	46.00	14.21	9.64	0.05	Average
8	3.07	29.37	-26.63	56.00	19.68	9.64	0.05	QP
9	9.20	25.69	-24.31	50.00	15.81	9.69	0.19	Average
10	9.20	33.84	-26.16	60.00	23.96	9.69	0.19	QP
11	13.27	27.68	-22.32	50.00	17.92	9.70	0.06	Average
12	13.27	37.94	-22.06	60.00	28.18	9.70	0.06	QP

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

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

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Adapter Mode ; RX		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.24	27.02	-25.20	52.22	17.38	9.62	0.02	Average
2	0.24	36.95	-25.27	62.22	27.31	9.62	0.02	QP
3 MAX	0.29	35.29	-15.17	50.46	25.63	9.61	0.05	Average
4	0.29	37.00	-23.46	60.46	27.34	9.61	0.05	QP
5	0.89	21.98	-24.02	46.00	12.36	9.61	0.01	Average
6	0.89	32.50	-23.50	56.00	22.88	9.61	0.01	QP
7	2.13	28.34	-17.66	46.00	18.71	9.62	0.01	Average
8	2.13	35.90	-20.10	56.00	26.27	9.62	0.01	QP
9	3.84	23.44	-22.56	46.00	13.73	9.63	0.08	Average
10	3.84	31.50	-24.50	56.00	21.79	9.63	0.08	QP
11	14.83	29.43	-20.57	50.00	19.78	9.64	0.01	Average
12	14.83	39.83	-20.17	60.00	30.18	9.64	0.01	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

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)	913.75k	853.323k	853KF1D	877.5k	847.076k
BT-EDR(2Mbps)	1.306M	1.191M	1M19G1D	1.258M	1.186M
BT-EDR(3Mbps)	1.258M	1.202M	1M20G1D	1.253M	1.192M

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

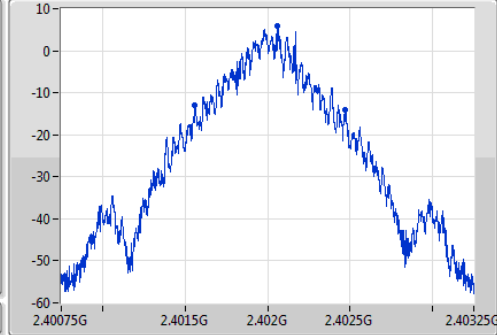
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	Inf	913.75k	847.076k
2441MHz_TnomVnom	Pass	Inf	877.5k	853.323k
2480MHz_TnomVnom	Pass	Inf	877.5k	852.074k
BT-EDR(2Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	Inf	1.304M	1.191M
2441MHz_TnomVnom	Pass	Inf	1.306M	1.186M
2480MHz_TnomVnom	Pass	Inf	1.258M	1.191M
BT-EDR(3Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	Inf	1.254M	1.202M
2441MHz_TnomVnom	Pass	Inf	1.253M	1.192M
2480MHz_TnomVnom	Pass	Inf	1.258M	1.201M

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

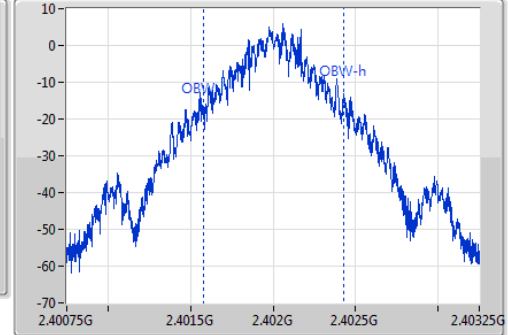
BT-BR(1Mbps)
EBW
2402MHz

21/08/2018

Ch Freq
2.402GHz
Span
2.5MHz
RBW
10kHz
VBW
30kHz
Sweep Time
100ms
Detector Type
Peak



Ch Freq
2.402GHz
Span
2.5MHz
RBW
10kHz
VBW
30kHz
Sweep Time
100ms
Detector Type
Sample

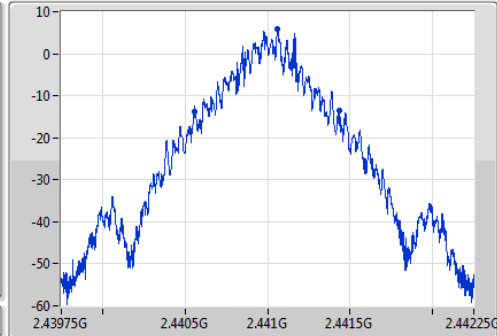


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
913.75k	2.401558G	2.402471G	847.076k	2.40158G	2.402427G	Inf	1

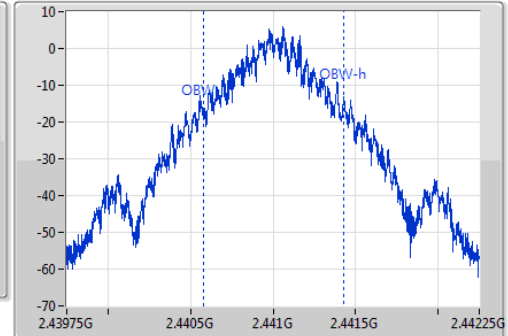
BT-BR(1Mbps)
EBW
2441MHz

21/08/2018

Ch Freq
2.441GHz
Span
2.5MHz
RBW
10kHz
VBW
30kHz
Sweep Time
100ms
Detector Type
Peak



Ch Freq
2.441GHz
Span
2.5MHz
RBW
10kHz
VBW
30kHz
Sweep Time
100ms
Detector Type
Sample

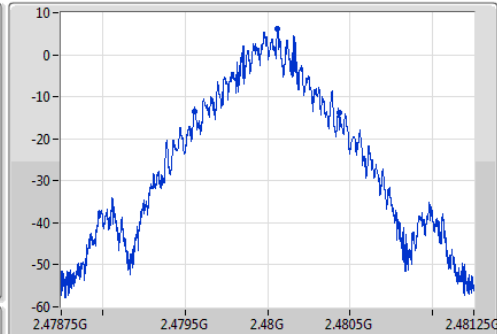


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
877.5k	2.440555G	2.441433G	853.323k	2.440576G	2.44143G	Inf	1

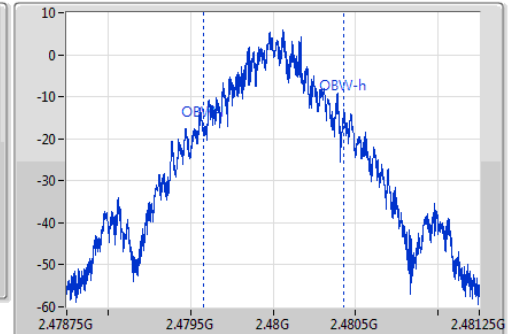
BT-BR(1Mbps)
EBW
2480MHz

21/08/2018

Ch Freq
2.48GHz
Span
2.5MHz
RBW
10kHz
VBW
30kHz
Sweep Time
100ms
Detector Type
Peak



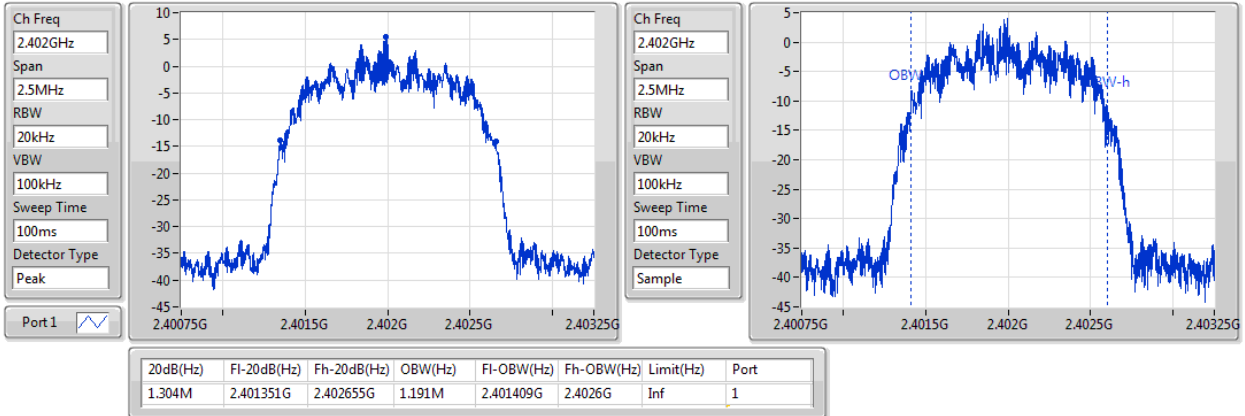
Ch Freq
2.48GHz
Span
2.5MHz
RBW
10kHz
VBW
30kHz
Sweep Time
100ms
Detector Type
Sample



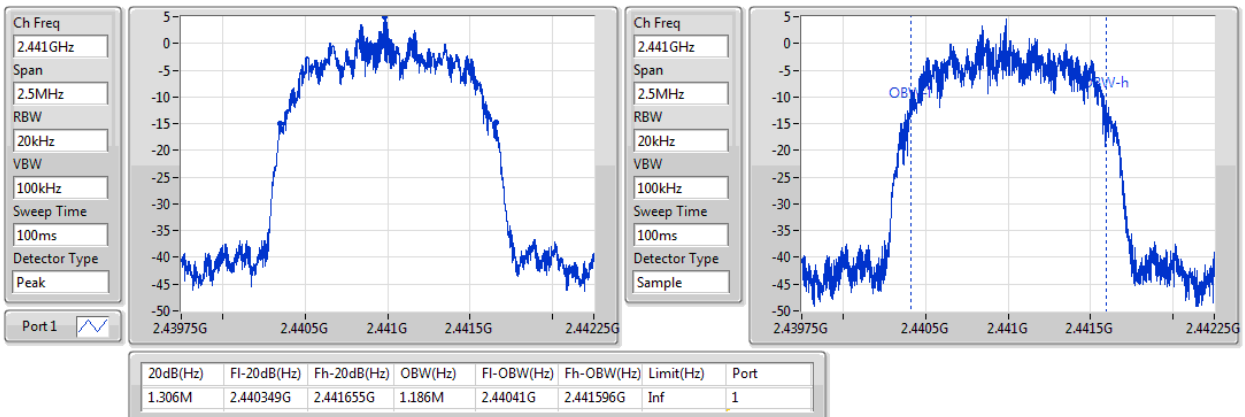
20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
877.5k	2.479555G	2.480433G	852.074k	2.479578G	2.48043G	Inf	1

BT-EDR(2Mbps)
EBW
2402MHz

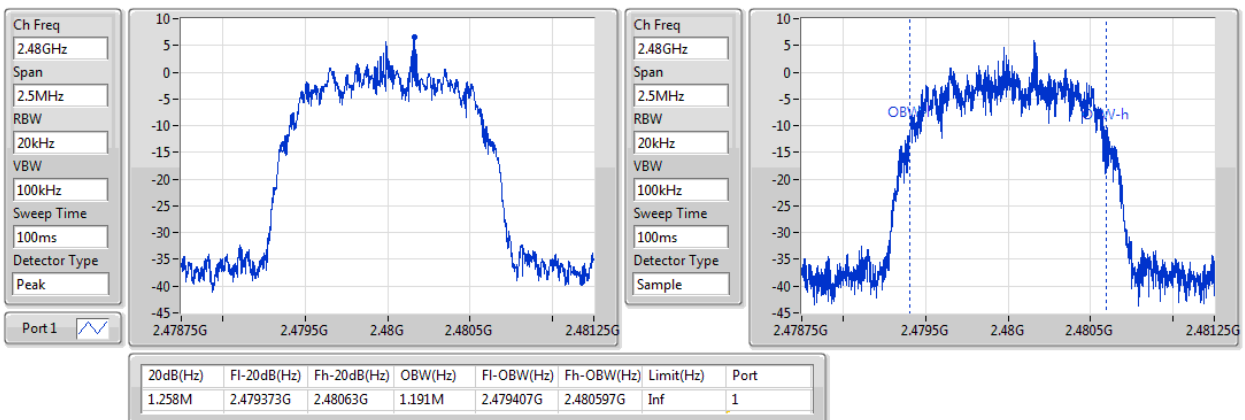
21/08/2018


BT-EDR(2Mbps)
EBW
2441MHz

21/08/2018

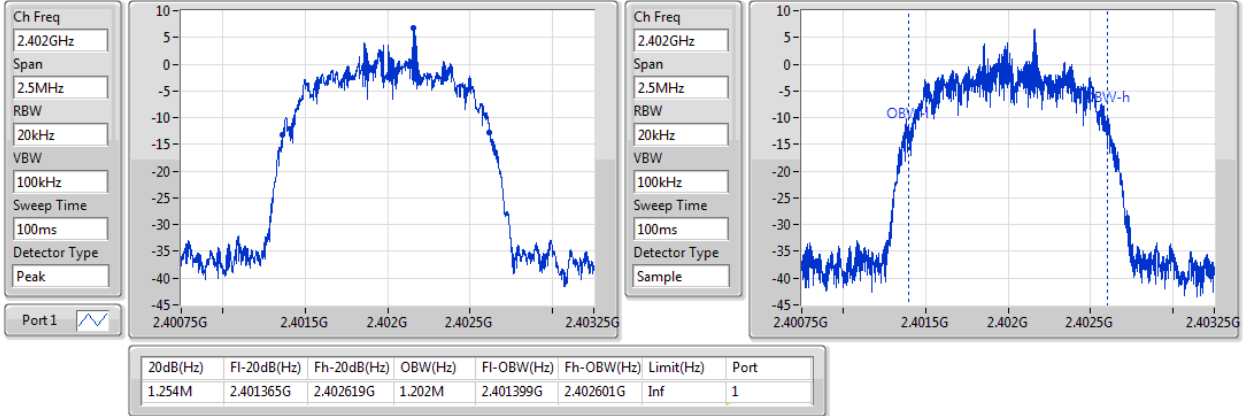

BT-EDR(2Mbps)
EBW
2480MHz

21/08/2018

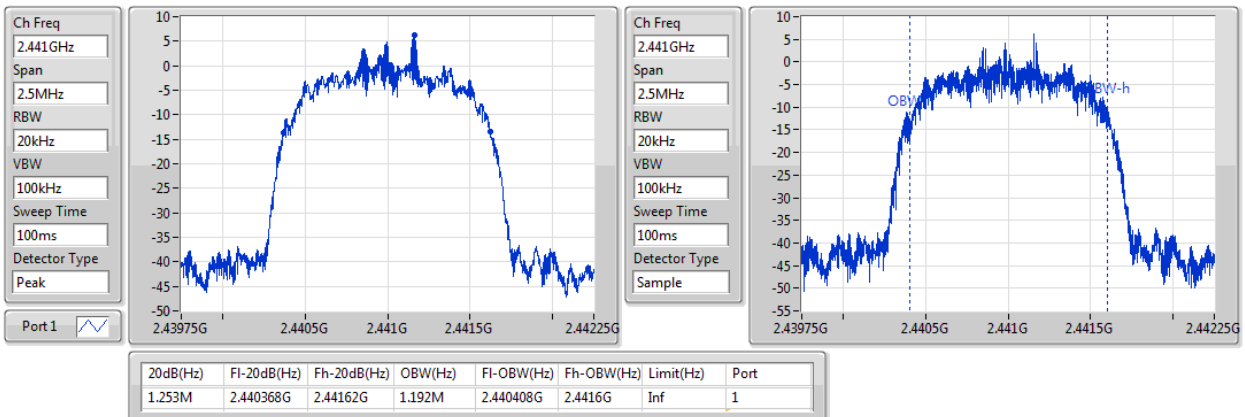


BT-EDR(3Mbps)
EBW
2402MHz

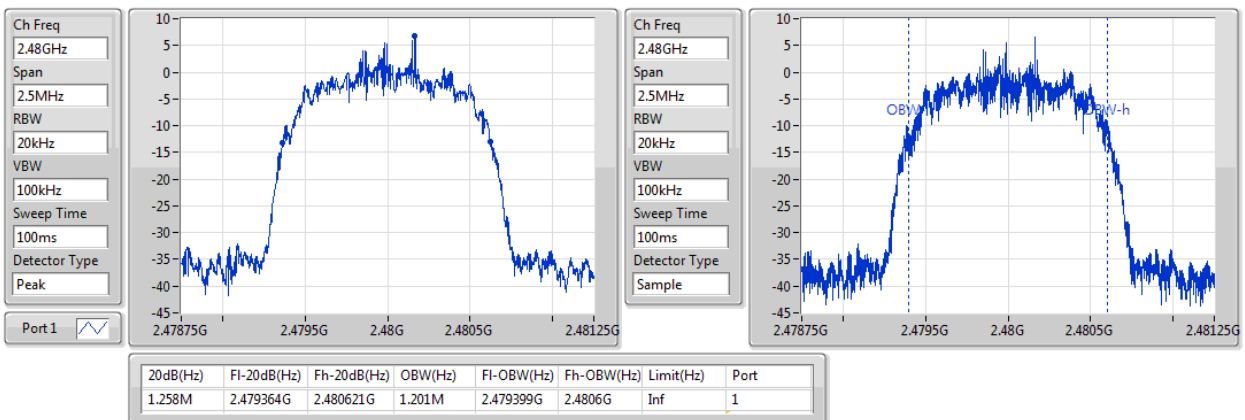
21/08/2018


BT-EDR(3Mbps)
EBW
2441MHz

21/08/2018


BT-EDR(3Mbps)
EBW
2480MHz

21/08/2018



Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.002M	1.0005M
BT-EDR(2Mbps)	1.17M	1.1655M
BT-EDR(3Mbps)	1.1655M	835.5k

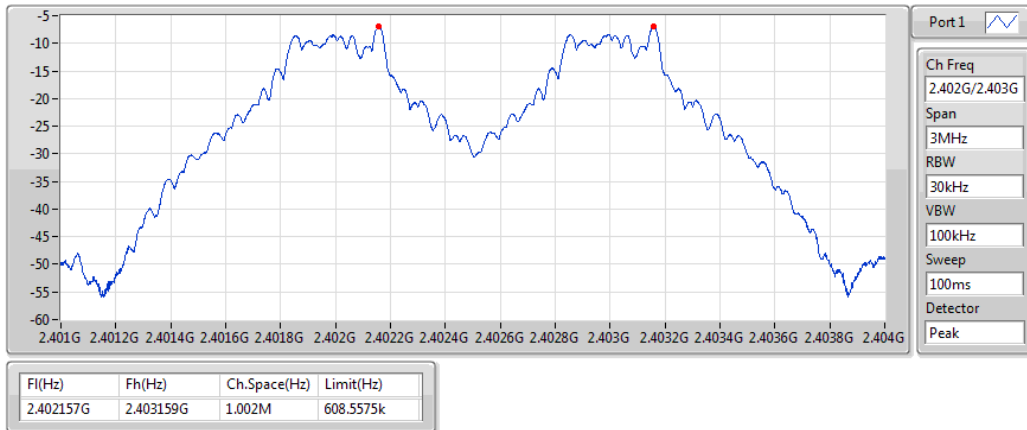
Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402157G	2.403159G	1.002M	608.5575k
2441MHz_TnomVnom	Pass	2.441158G	2.442159G	1.0005M	584.415k
2480MHz_TnomVnom	Pass	2.479158G	2.480159G	1.0005M	584.415k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.401992G	2.403162G	1.17M	868.464k
2441MHz_TnomVnom	Pass	2.440992G	2.442159G	1.167M	869.796k
2480MHz_TnomVnom	Pass	2.478993G	2.480159G	1.1655M	849.816k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.40216G	2.402995G	835.5k	835.164k
2441MHz_TnomVnom	Pass	2.441158G	2.441994G	835.5k	834.498k
2480MHz_TnomVnom	Pass	2.478993G	2.480159G	1.1655M	837.828k

BT-BR(1Mbps)

Channel Separation

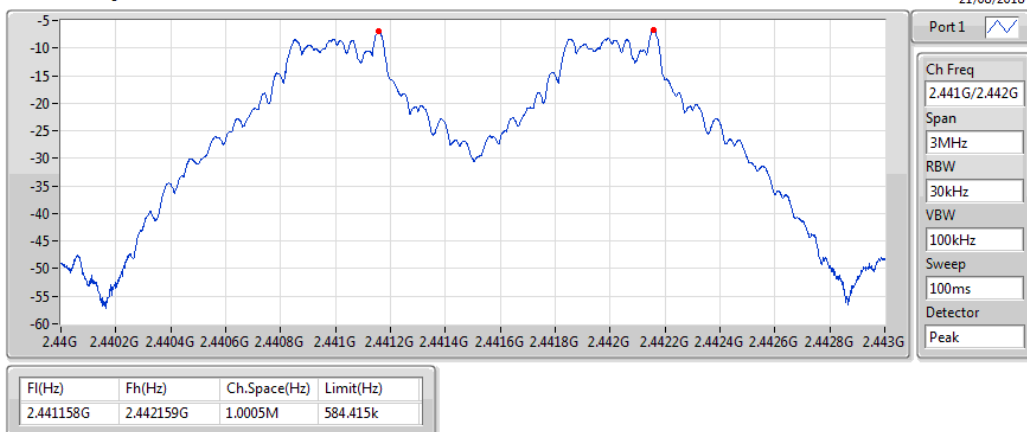
2.402G/2.403GHz



BT-BR(1Mbps)

Channel Separation

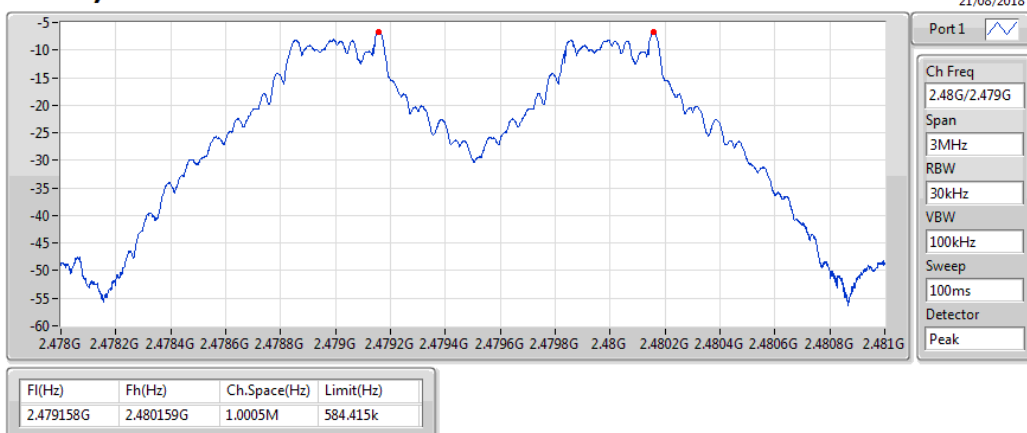
2.441G/2.442GHz



BT-BR(1Mbps)

Channel Separation

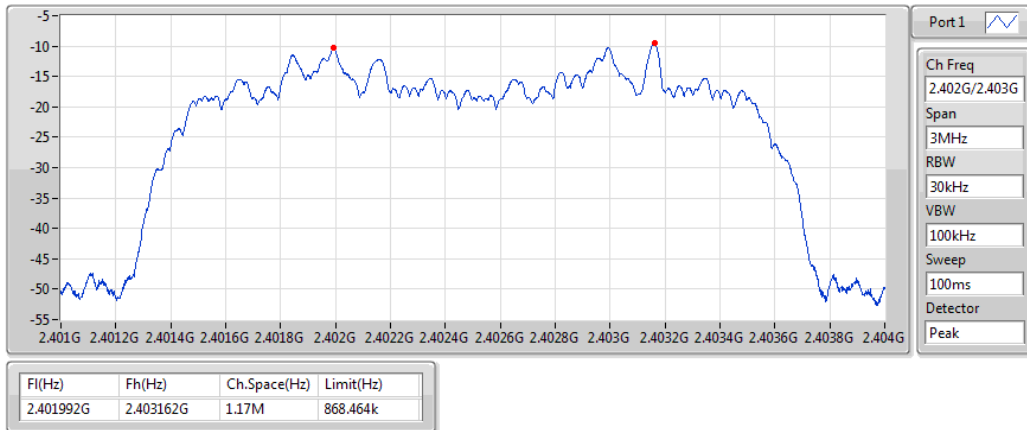
2.48G/2.479GHz



BT-EDR(2Mbps)

Channel Separation

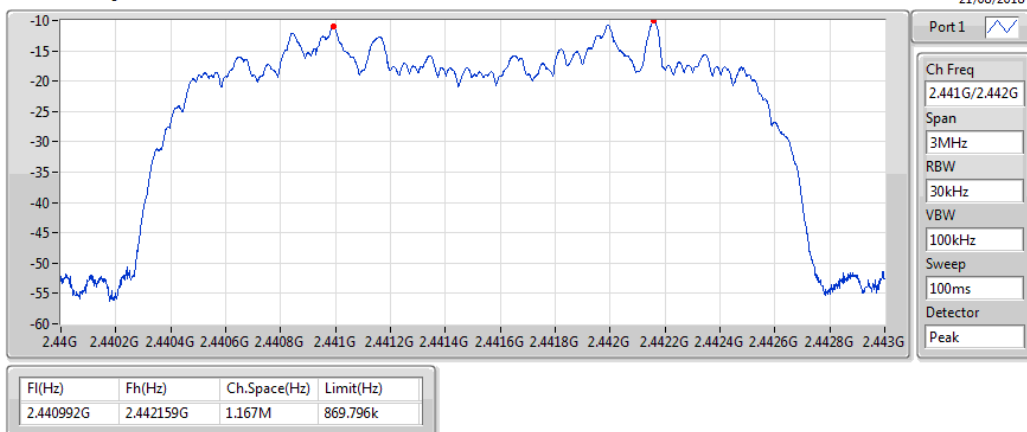
2.402G/2.403GHz



BT-EDR(2Mbps)

Channel Separation

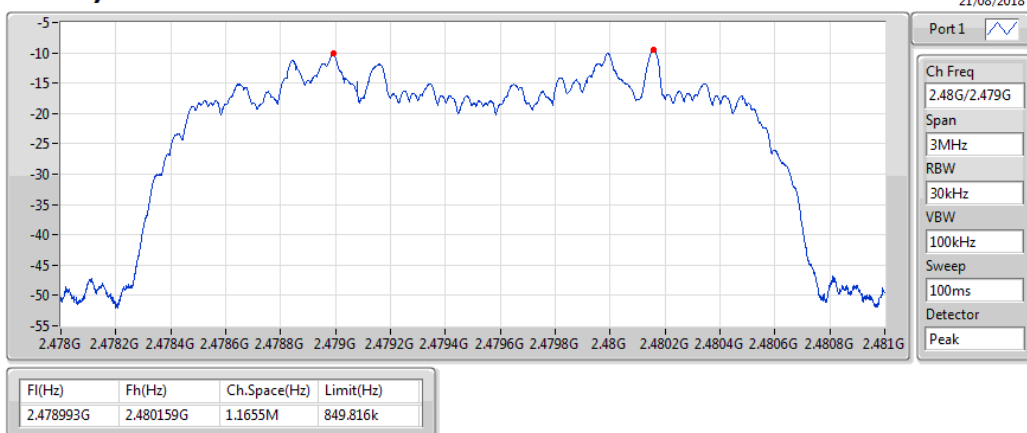
2.441G/2.442GHz



BT-EDR(2Mbps)

Channel Separation

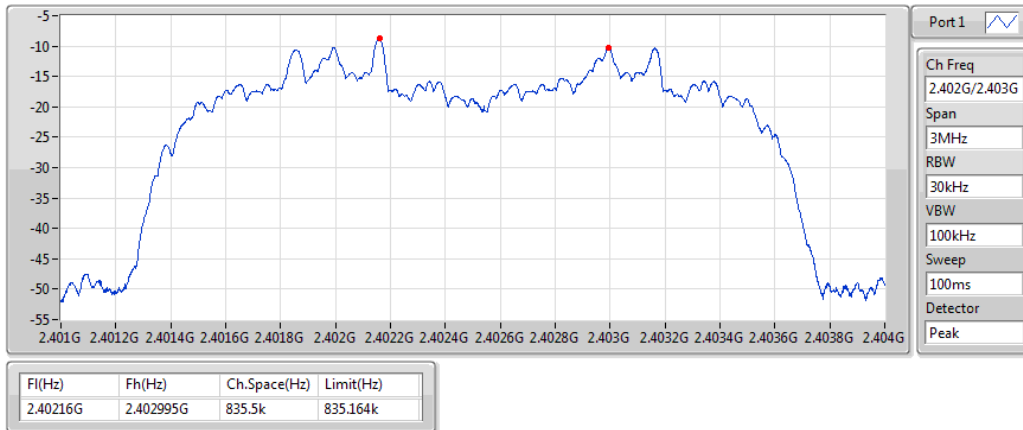
2.48G/2.479GHz



BT-EDR(3Mbps)

Channel Separation

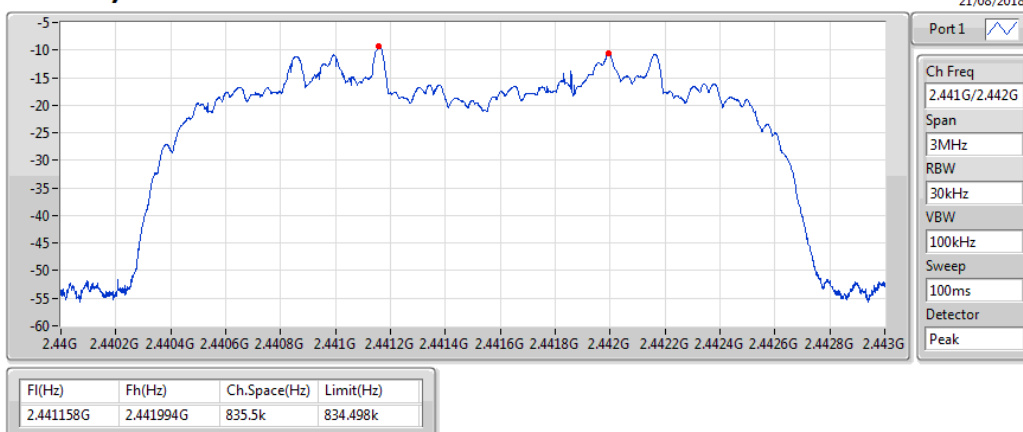
2.402G/2.403GHz



BT-EDR(3Mbps)

Channel Separation

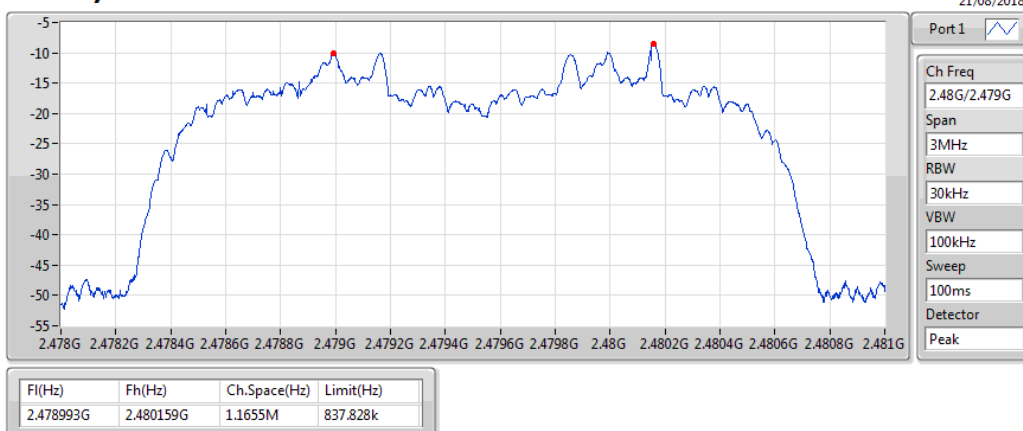
2.441G/2.442GHz



BT-EDR(3Mbps)

Channel Separation

2.48G/2.479GHz



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	12.02	0.01592
BT-EDR(2Mbps)	11.51	0.01416
BT-EDR(3Mbps)	11.74	0.01493

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	-1.04	11.69	21.00
2441MHz_TnomVnom	Pass	-1.04	11.70	21.00
2480MHz_TnomVnom	Pass	-1.04	12.02	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	-1.04	11.23	21.00
2441MHz_TnomVnom	Pass	-1.04	11.05	21.00
2480MHz_TnomVnom	Pass	-1.04	11.51	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	-1.04	11.45	21.00
2441MHz_TnomVnom	Pass	-1.04	11.37	21.00
2480MHz_TnomVnom	Pass	-1.04	11.74	21.00

Summary

Mode	Power	Power
	(dBm)	(W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	11.77	0.01503
BT-EDR(2Mbps)	9.32	0.00855
BT-EDR(3Mbps)	9.32	0.00855

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	-1.04	11.40	21.00
2441MHz_TnomVnom	Pass	-1.04	11.44	21.00
2480MHz_TnomVnom	Pass	-1.04	11.77	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	-1.04	9.06	21.00
2441MHz_TnomVnom	Pass	-1.04	8.48	21.00
2480MHz_TnomVnom	Pass	-1.04	9.32	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	-1.04	9.02	21.00
2441MHz_TnomVnom	Pass	-1.04	8.49	21.00
2480MHz_TnomVnom	Pass	-1.04	9.32	21.00

Summary

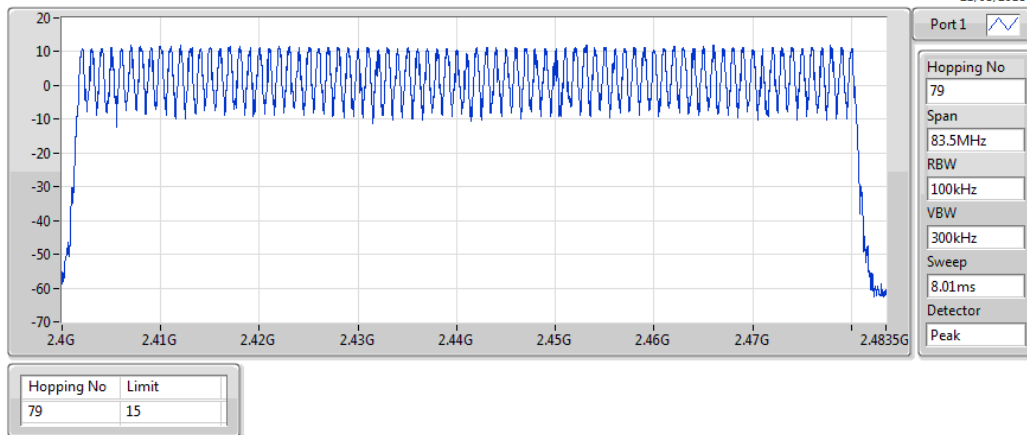
Mode	Max-Hop No
2.4-2.4835GHz	-
BT-BR(1Mbps)	79
BT-EDR(2Mbps)	79
BT-EDR(3Mbps)	79

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

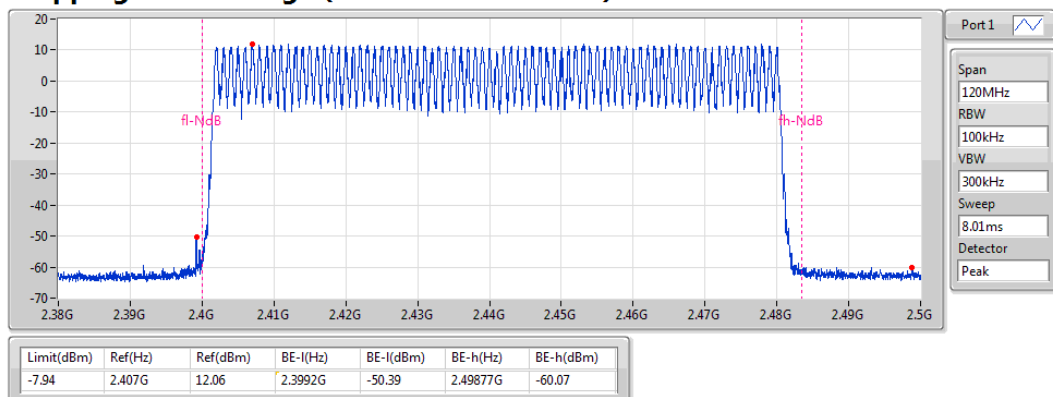
BT-BR(1Mbps) 2441MHz

Hopping Ch



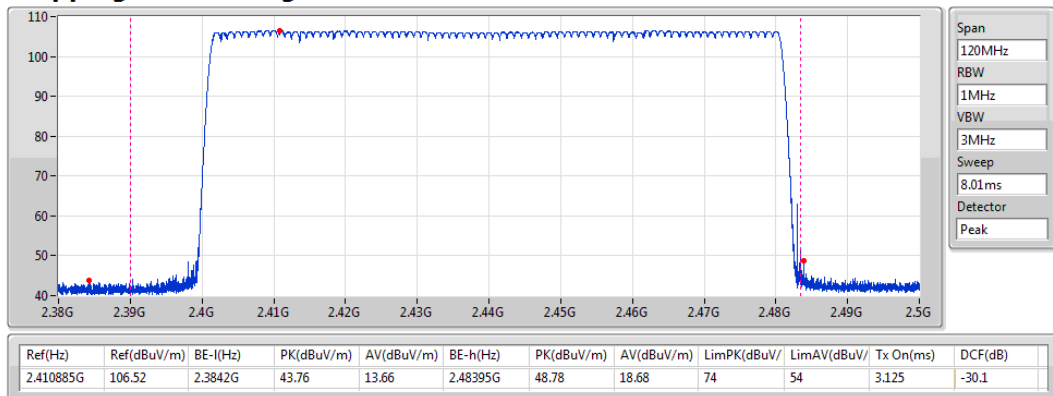
BT-BR(1Mbps) 2441MHz

Hopping Ch Bandedge (Non-restricted Band)



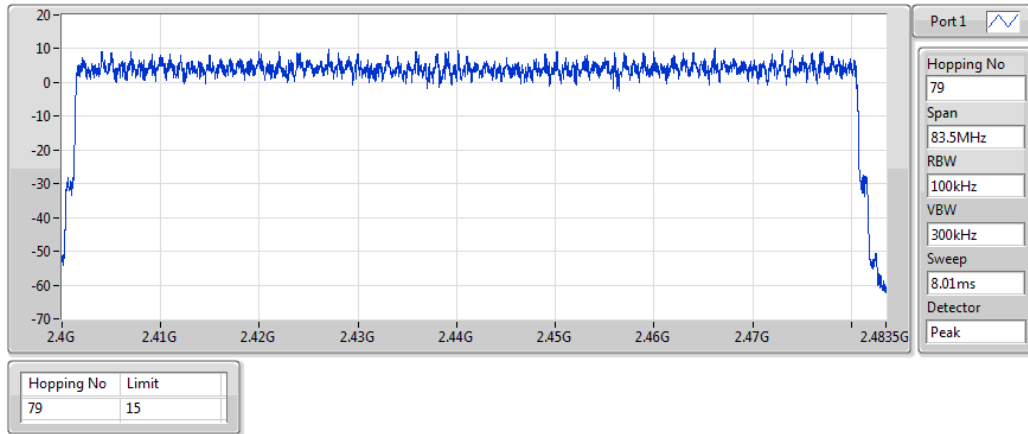
BT-BR(1Mbps) 2441MHz

Hopping Ch Bandedge (Restricted Band)



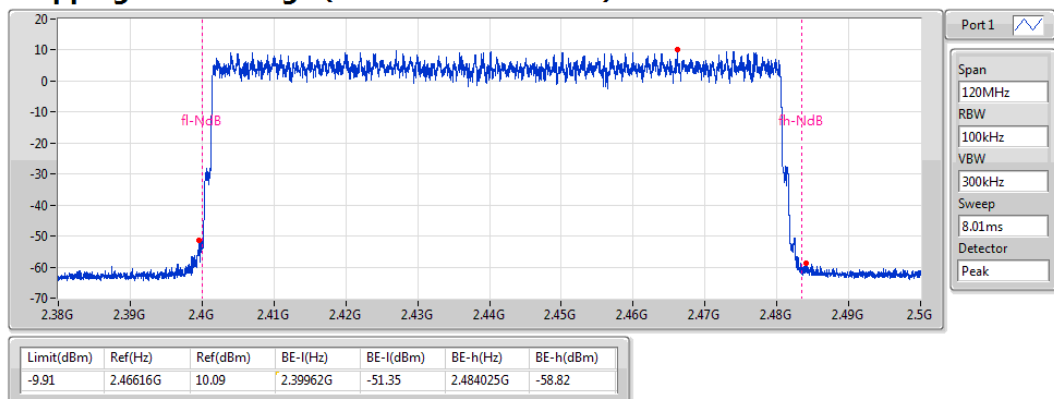
BT-EDR(2Mbps) 2441MHz

Hopping Ch



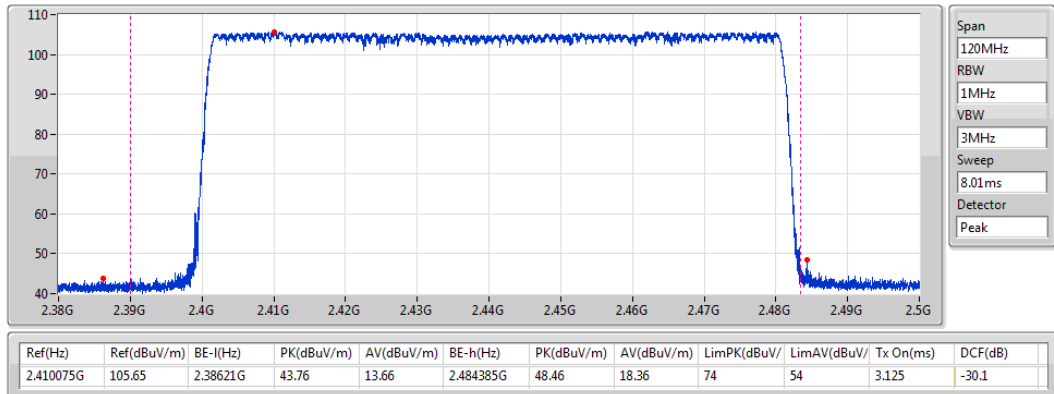
BT-EDR(2Mbps) 2441MHz

Hopping Ch Bandedge (Non-restricted Band)



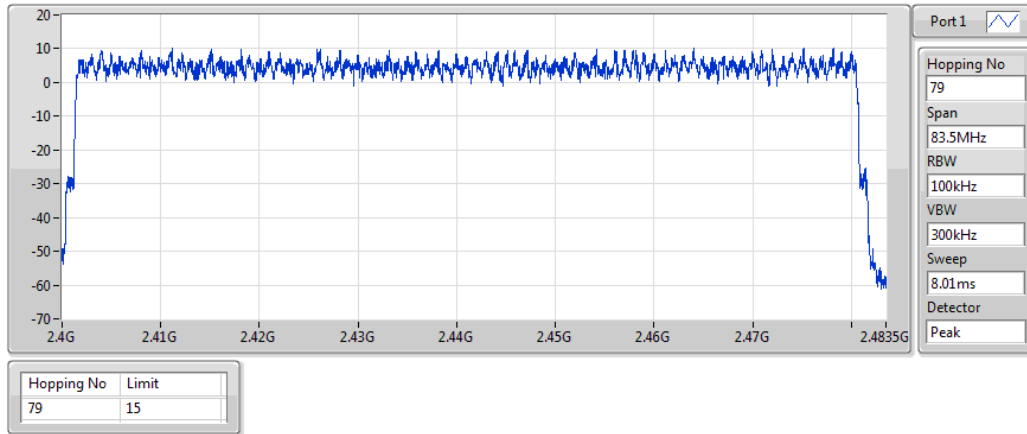
BT-EDR(2Mbps) 2441MHz

Hopping Ch Bandedge (Restricted Band)



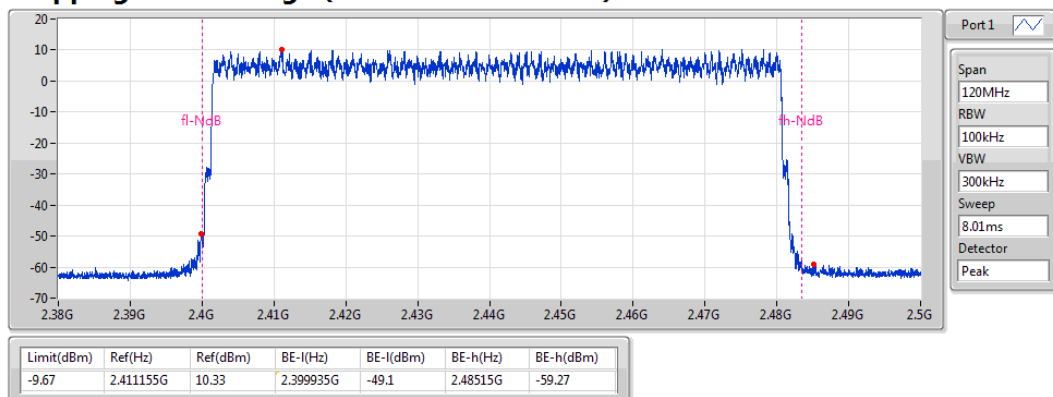
BT-EDR(3Mbps) 2441MHz

Hopping Ch



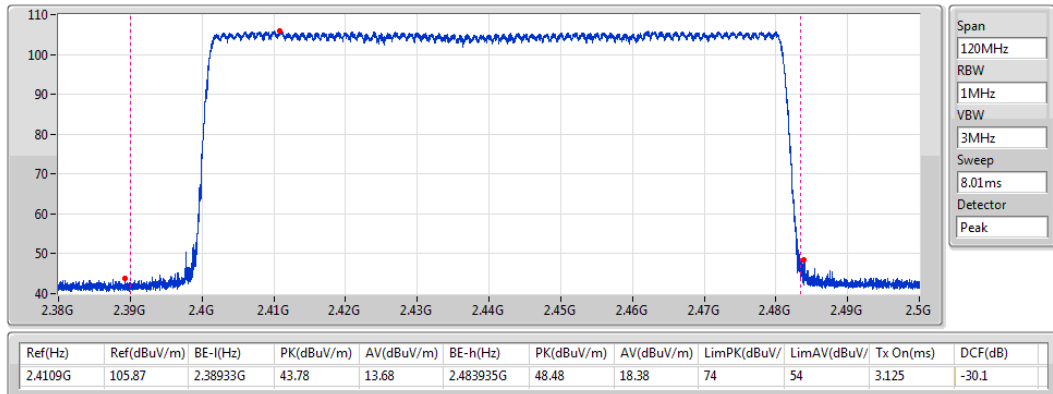
BT-EDR(3Mbps) 2441MHz

Hopping Ch Bandedge (Non-restricted Band)



BT-EDR(3Mbps) 2441MHz

Hopping Ch Bandedge (Restricted Band)



Summary

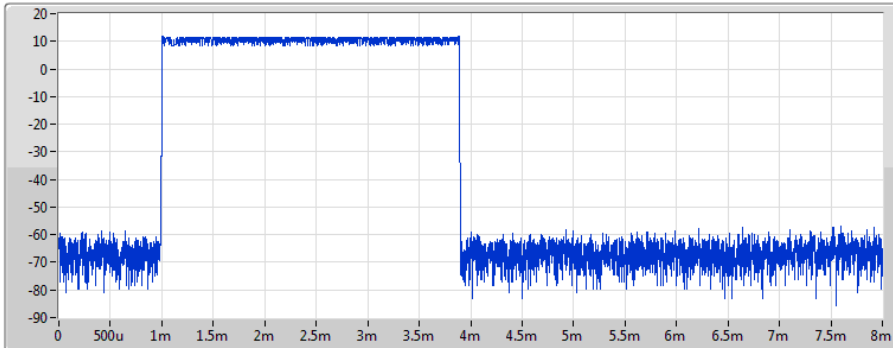
Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	308.074m
BT-EDR(2Mbps)	308.2872m
BT-EDR(3Mbps)	307.3278m

Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2441MHz_TnomVnom	Pass	31.6	308.074m	400m	2.89m
BT-EDR(2Mbps)	-	-	-	-	-
2441MHz_TnomVnom	Pass	31.6	308.2872m	400m	2.892m
BT-EDR(3Mbps)	-	-	-	-	-
2441MHz_TnomVnom	Pass	31.6	307.3278m	400m	2.883m

BT-BR(1Mbps)


2441MHz



Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.074m	400m	2.89m

Dwell

21/08/2018

Port 1 

Ch Freq
2.441GHz

RBW
300kHz

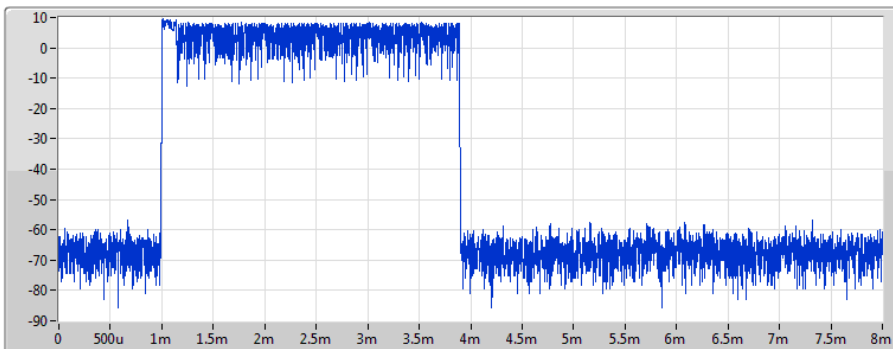
VBW
1MHz

Sweep Time
8ms

TX Time
2.89ms

BT-EDR(2Mbps)


2441MHz



Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.2872m	400m	2.892m

Dwell

21/08/2018

Port 1 

Ch Freq
2.441GHz

RBW
300kHz

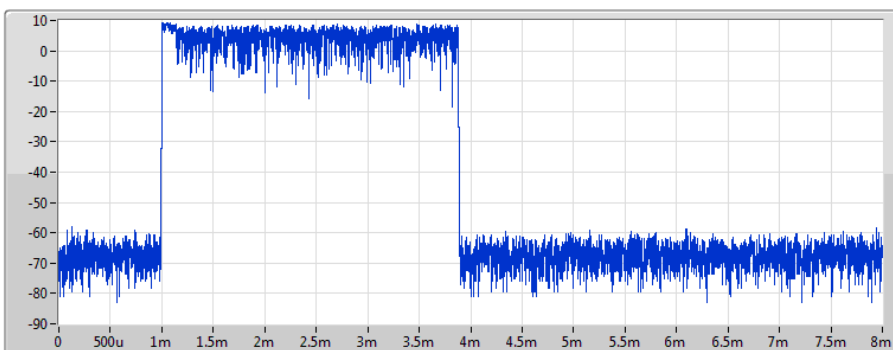
VBW
1MHz

Sweep Time
8ms

TX Time
2.892ms

BT-EDR(3Mbps)


2441MHz



Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	307.3278m	400m	2.883m

Dwell

21/08/2018

Port 1 

Ch Freq
2.441GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.883ms

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	2.402004G	10.85	-9.15	2.146992G	-62.83	2.399932G	-44.26	2.484552G	-60.87	17.314113G	-53.11	1
BT-EDR(2Mbps)	Pass	2.40167G	5.98	-14.02	2.398G	-61.64	2.399952G	-46.55	2.484476G	-60.50	16.469819G	-52.59	1
BT-EDR(3Mbps)	Pass	2.40167G	7.30	-12.70	1.99544G	-60.82	2.39996G	-45.97	2.4845G	-61.47	15.307508G	-52.92	1

Result

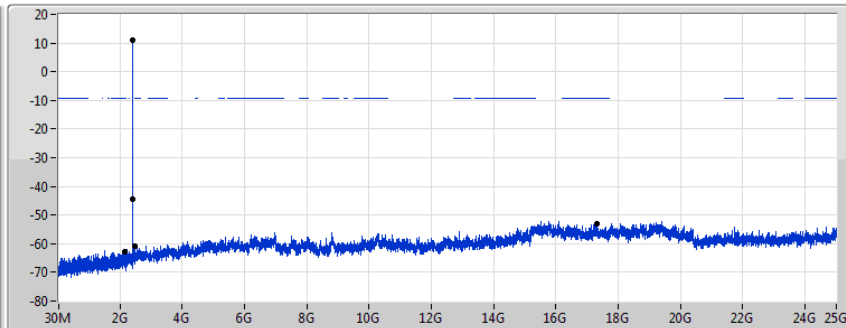
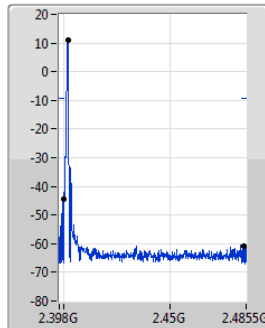
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402004G	10.85	-9.15	2.146992G	-62.83	2.399932G	-44.26	2.484552G	-60.87	17.314113G	-53.11	1
2441MHz_TnomVnom	Pass	2.441082G	11.04	-8.96	2.180144G	-62.73	2.398976G	-61.58	2.485364G	-60.69	15.203378G	-52.19	1
2480MHz_TnomVnom	Pass	2.479993G	10.67	-9.33	1.946896G	-62.40	2.39884G	-61.17	2.483536G	-55.35	15.290622G	-53.07	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.40167G	5.98	-14.02	2.398G	-61.64	2.399952G	-46.55	2.484476G	-60.50	16.469819G	-52.59	1
2441MHz_TnomVnom	Pass	2.441082G	5.68	-14.32	2.1612G	-61.36	2.398724G	-61.15	2.484984G	-60.66	16.365689G	-51.40	1
2480MHz_TnomVnom	Pass	2.479826G	8.65	-11.35	2.15528G	-62.67	2.399988G	-61.57	2.483796G	-57.01	16.315032G	-52.91	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.40167G	7.30	-12.70	1.99544G	-60.82	2.39996G	-45.97	2.4845G	-61.47	15.307508G	-52.92	1
2441MHz_TnomVnom	Pass	2.441082G	6.59	-13.41	1.768112G	-62.10	2.398968G	-60.74	2.484204G	-60.67	15.324394G	-52.18	1
2480MHz_TnomVnom	Pass	2.479993G	7.24	-12.76	2.097264G	-62.46	2.399608G	-61.27	2.483944G	-56.33	17.556143G	-52.76	1

BT-BR(1Mbps)

CSE NdB

2402MHz

21/08/2018



Port1 

RBW VBW
100kHz 300kHz
Detector Type
Peak

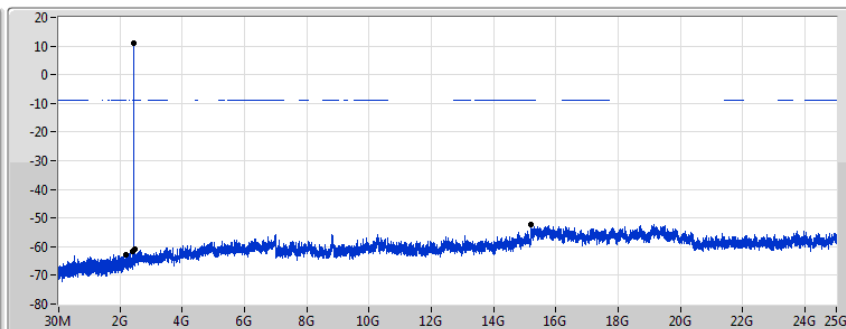
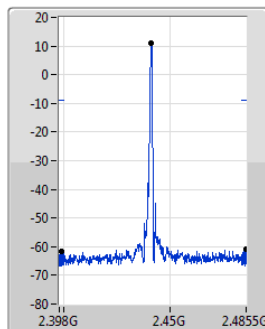
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.402004G	10.85	-9.15	2.146992G	-62.83	2.399932G	-44.26	2.484552G	-60.87	17.314113G	-53.11	1


BT-BR(1Mbps)

CSE NdB

2441MHz

21/08/2018



Port1 

RBW VBW
100kHz 300kHz
Detector Type
Peak

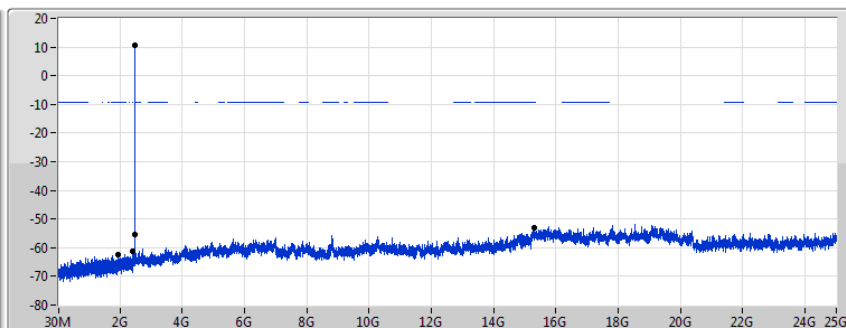
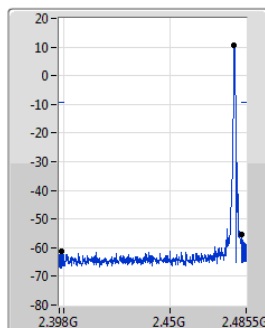
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.441082G	11.04	-8.96	2.180144G	-62.73	2.398976G	-61.58	2.485364G	-60.69	15.203378G	-52.19	1

BT-BR(1Mbps)

CSE NdB

2480MHz

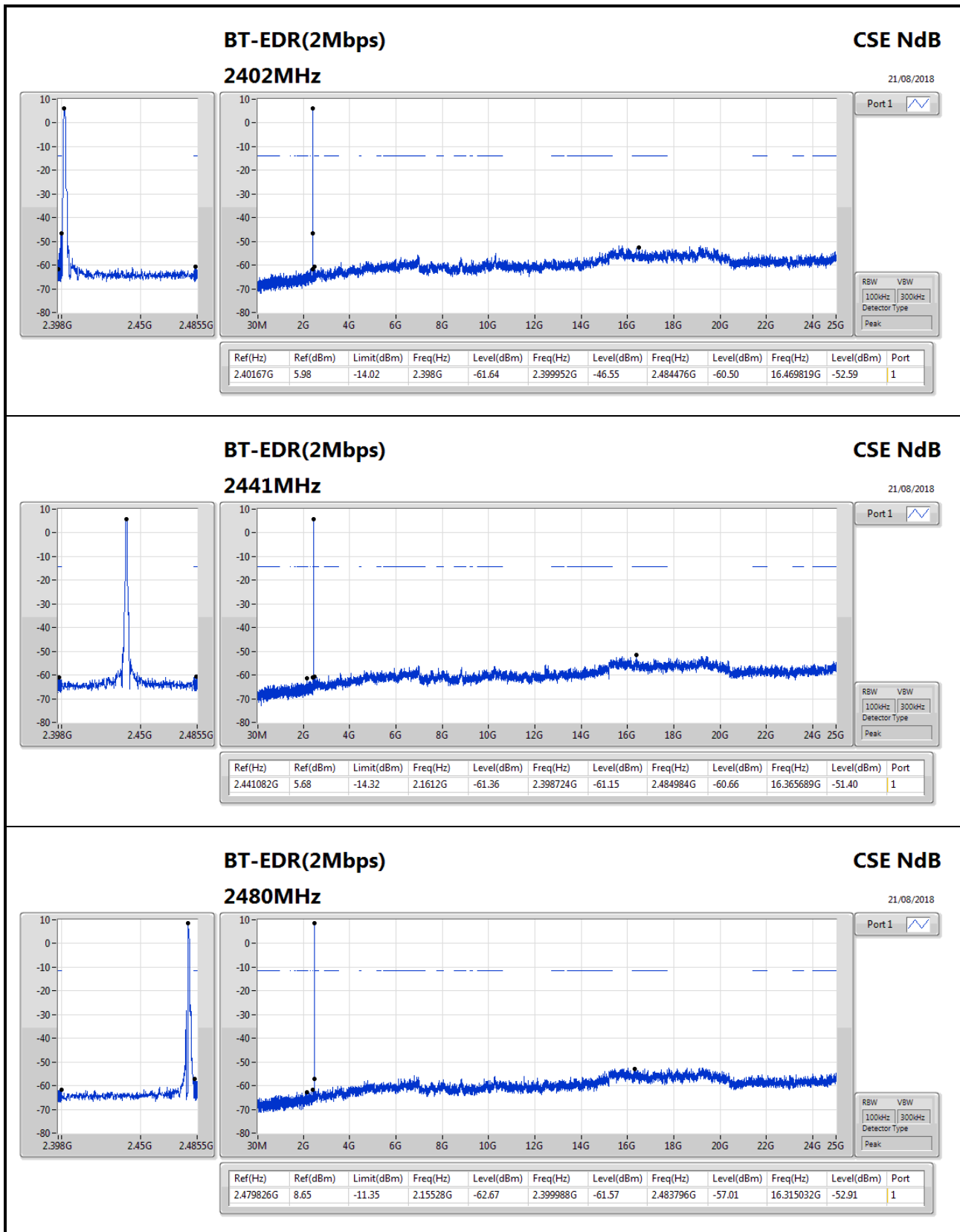
21/08/2018



Port1 

RBW VBW
100kHz 300kHz
Detector Type
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.479993G	10.67	-9.33	1.946896G	-62.40	2.39884G	-61.17	2.483536G	-55.35	15.290622G	-53.07	1

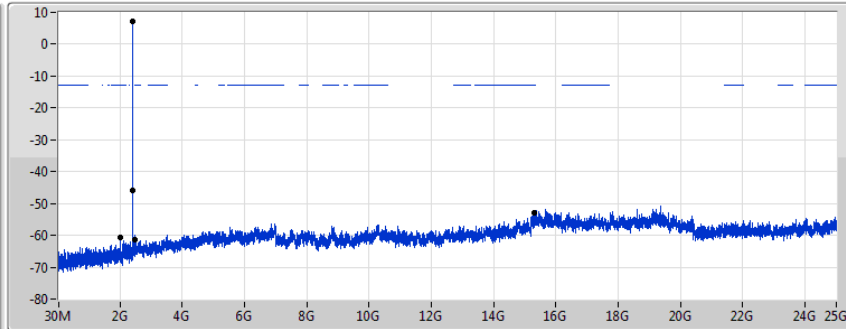
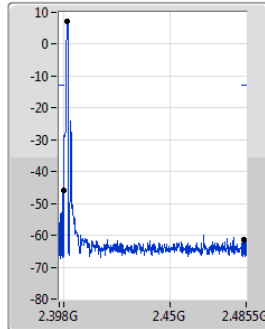


BT-EDR(3Mbps)

CSE NdB

2402MHz

21/08/2018



Port1

RBW VSW
100kHz 300kHz
Detector Type
Peak

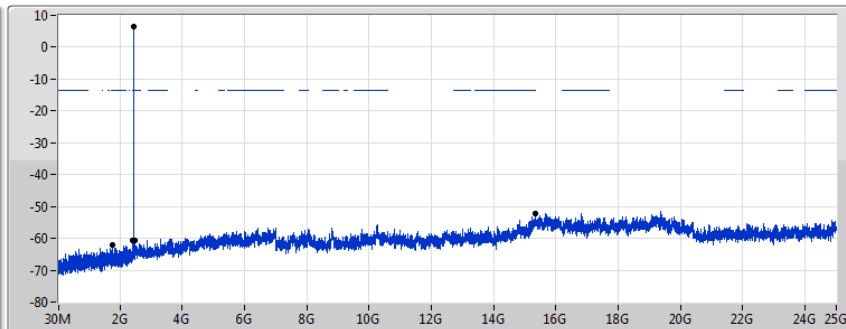
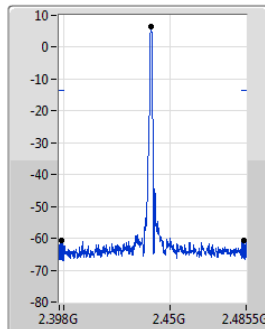
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40167G	7.30	-12.70	1.99544G	-60.82	2.39996G	-45.97	2.4845G	-61.47	15.307508G	-52.92	1

BT-EDR(3Mbps)

CSE NdB

2441MHz

21/08/2018



Port1

RBW VSW
100kHz 300kHz
Detector Type
Peak

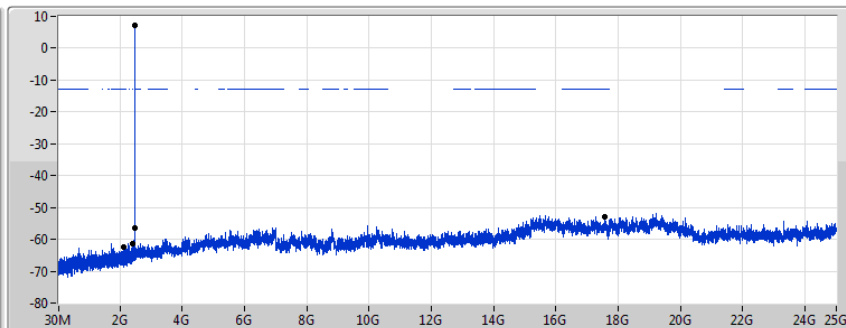
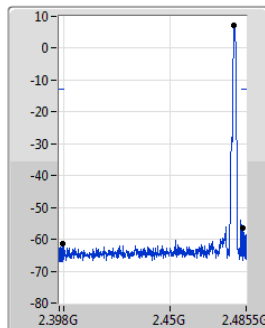
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.441082G	6.59	-13.41	1.768112G	-62.10	2.398968G	-60.74	2.484204G	-60.67	15.324394G	-52.18	1

BT-EDR(3Mbps)

CSE NdB

2480MHz

21/08/2018



Port1

RBW VSW
100kHz 300kHz
Detector Type
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.479993G	7.24	-12.76	2.097264G	-62.46	2.399608G	-61.27	2.483944G	-56.33	17.556143G	-52.76	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	39.7M	29.54	40.00	-10.46	-9.52	3	Vertical	360	1.00	-

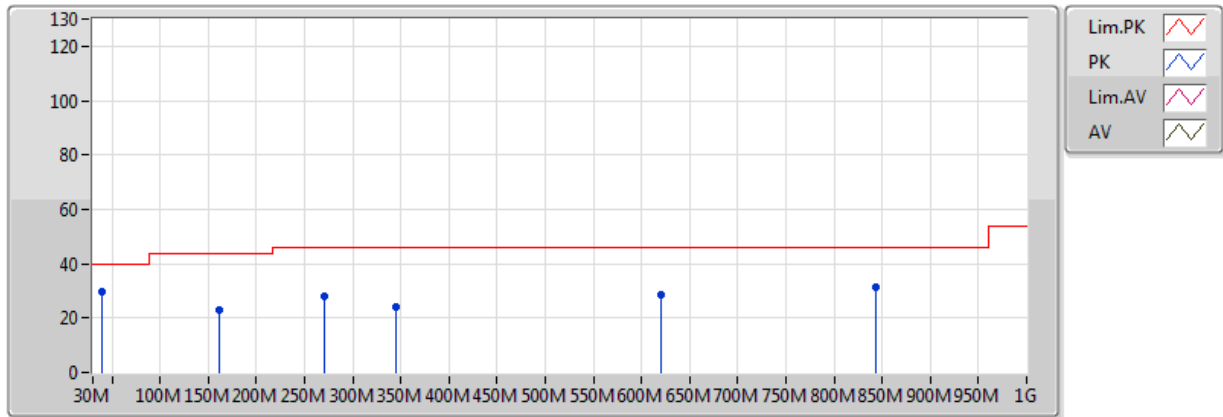
Result

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	Pass	PK	39.7M	29.54	40.00	-10.46	-9.52	3	Vertical	360	1.00	-
2441MHz	Pass	PK	161.92M	23.23	43.50	-20.27	-10.43	3	Vertical	360	1.00	-
2441MHz	Pass	PK	270.56M	27.86	46.00	-18.14	-6.30	3	Vertical	360	1.00	-
2441MHz	Pass	PK	344.28M	24.19	46.00	-21.81	-4.97	3	Vertical	360	1.00	-
2441MHz	Pass	PK	619.76M	28.51	46.00	-17.49	-0.41	3	Vertical	360	1.00	-
2441MHz	Pass	PK	842.86M	31.28	46.00	-14.72	2.06	3	Vertical	360	1.00	-
2441MHz	Pass	PK	37.76M	26.73	40.00	-13.27	-8.44	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	99.84M	21.74	43.50	-21.76	-10.34	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	183.26M	19.78	43.50	-23.72	-10.92	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	328.76M	28.84	46.00	-17.16	-5.38	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	617.82M	27.66	46.00	-18.34	-0.45	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	850.62M	30.46	46.00	-15.54	2.07	3	Horizontal	0	1.00	-

BT-BR(1Mbps)

2441MHz_Adapter

22/08/2018

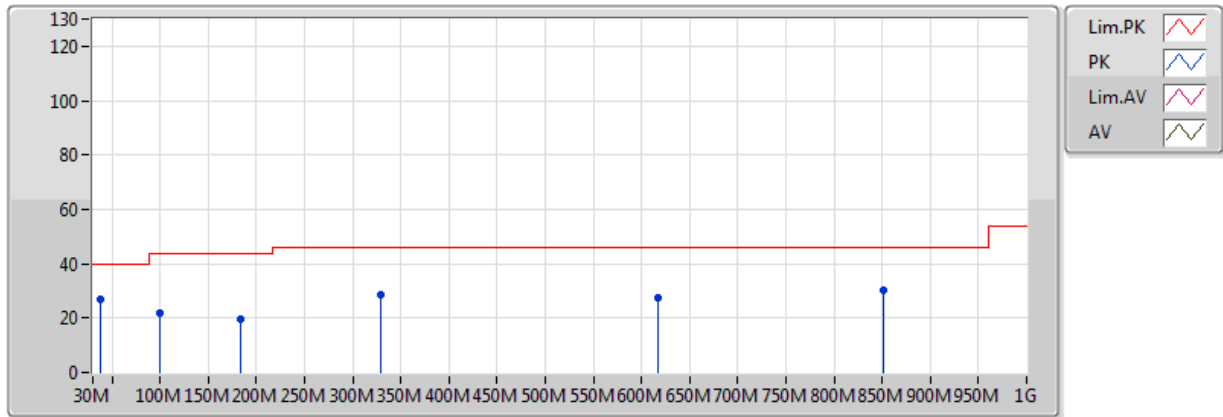


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	39.7M	29.54	40.00	-10.46	-9.52	3	Vertical	360	1.00	-
PK	161.92M	23.23	43.50	-20.27	-10.43	3	Vertical	360	1.00	-
PK	270.56M	27.86	46.00	-18.14	-6.30	3	Vertical	360	1.00	-
PK	344.28M	24.19	46.00	-21.81	-4.97	3	Vertical	360	1.00	-
PK	619.76M	28.51	46.00	-17.49	-0.41	3	Vertical	360	1.00	-
PK	842.86M	31.28	46.00	-14.72	2.06	3	Vertical	360	1.00	-

BT-BR(1Mbps)

2441MHz_Adapter

22/08/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	37.76M	26.73	40.00	-13.27	-8.44	3	Horizontal	0	1.00	-
PK	99.84M	21.74	43.50	-21.76	-10.34	3	Horizontal	0	1.00	-
PK	183.26M	19.78	43.50	-23.72	-10.92	3	Horizontal	0	1.00	-
PK	328.76M	28.84	46.00	-17.16	-5.38	3	Horizontal	0	1.00	-
PK	617.82M	27.66	46.00	-18.34	-0.45	3	Horizontal	0	1.00	-
PK	850.62M	30.46	46.00	-15.54	2.07	3	Horizontal	0	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	AV	2.4982G	48.37	54.00	-5.63	32.34	3	Vertical	86	2.46	-
BT-EDR(2Mbps)	Pass	AV	2.4982G	48.09	54.00	-5.91	32.34	3	Vertical	90	2.46	-
BT-EDR(3Mbps)	Pass	AV	2.4982G	48.09	54.00	-5.91	32.34	3	Vertical	87	2.46	-

Result

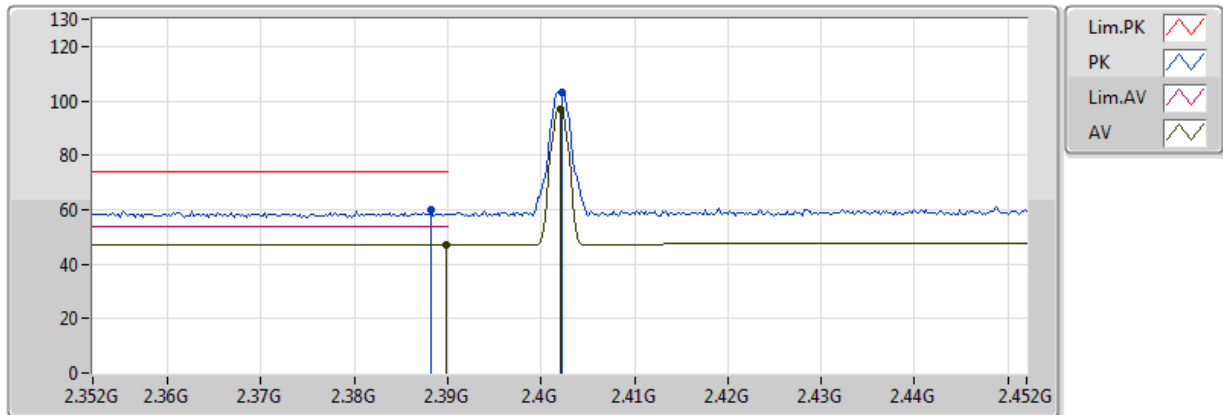
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3898G	47.02	54.00	-6.98	32.01	3	Vertical	69	2.82	-
2402MHz	Pass	AV	2.402G	97.12	Inf	-Inf	32.04	3	Vertical	69	2.82	-
2402MHz	Pass	PK	2.3882G	59.92	74.00	-14.08	32.00	3	Vertical	69	2.28	-
2402MHz	Pass	PK	2.4022G	103.11	Inf	-Inf	32.05	3	Vertical	69	2.82	-
2402MHz	Pass	AV	2.3898G	47.02	54.00	-6.98	32.01	3	Horizontal	162	2.28	-
2402MHz	Pass	AV	2.402G	98.35	Inf	-Inf	32.04	3	Horizontal	162	2.28	-
2402MHz	Pass	PK	2.3792G	59.32	74.00	-14.68	31.97	3	Horizontal	162	2.28	-
2402MHz	Pass	PK	2.402G	104.37	Inf	-Inf	32.04	3	Horizontal	162	2.28	-
2441MHz	Pass	AV	2.3894G	47.29	54.00	-6.71	32.00	3	Vertical	86	2.46	-
2441MHz	Pass	AV	2.441G	104.12	Inf	-Inf	32.16	3	Vertical	86	2.46	-
2441MHz	Pass	AV	2.4982G	48.37	54.00	-5.63	32.34	3	Vertical	86	2.46	-
2441MHz	Pass	PK	2.3614G	59.33	74.00	-14.67	31.91	3	Vertical	86	2.46	-
2441MHz	Pass	PK	2.441G	104.24	Inf	-Inf	32.16	3	Vertical	86	2.46	-
2441MHz	Pass	PK	2.4918G	60.04	74.00	-13.96	32.32	3	Vertical	86	2.46	-
2441MHz	Pass	AV	2.3894G	47.29	54.00	-6.71	32.00	3	Horizontal	31	1.98	-
2441MHz	Pass	AV	2.441G	104.26	Inf	-Inf	32.16	3	Horizontal	31	1.98	-
2441MHz	Pass	AV	2.4982G	48.37	54.00	-5.63	32.34	3	Horizontal	31	1.98	-
2441MHz	Pass	PK	2.373G	59.16	74.00	-14.84	31.95	3	Horizontal	31	1.98	-
2441MHz	Pass	PK	2.441G	105.12	Inf	-Inf	32.16	3	Horizontal	31	1.98	-
2441MHz	Pass	PK	2.4982G	59.85	74.00	-14.15	32.34	3	Horizontal	31	1.98	-
2441MHz	Pass	AV	4.88236G	33.71	54.00	-20.29	3.53	3	Vertical	200	1.50	-
2441MHz	Pass	PK	4.87714G	45.94	74.00	-28.06	3.52	3	Vertical	200	1.50	-
2441MHz	Pass	AV	4.89346G	33.65	54.00	-20.35	3.56	3	Horizontal	117	1.50	-
2441MHz	Pass	PK	4.89166G	46.29	74.00	-27.71	3.55	3	Horizontal	117	1.50	-
2480MHz	Pass	AV	2.48G	102.34	Inf	-Inf	32.28	3	Vertical	87	2.65	-
2480MHz	Pass	AV	2.498G	48.09	54.00	-5.91	32.34	3	Vertical	87	2.65	-
2480MHz	Pass	PK	2.4798G	104.44	Inf	-Inf	32.28	3	Vertical	87	2.65	-
2480MHz	Pass	PK	2.492G	59.97	74.00	-14.03	32.32	3	Vertical	87	2.65	-
2480MHz	Pass	AV	2.48G	103.53	Inf	-Inf	32.28	3	Horizontal	148	2.41	-
2480MHz	Pass	AV	2.498G	48.09	54.00	-5.91	32.34	3	Horizontal	148	2.41	-
2480MHz	Pass	PK	2.4802G	105.64	Inf	-Inf	32.28	3	Horizontal	148	2.41	-
2480MHz	Pass	PK	2.4994G	60.28	74.00	-13.72	32.34	3	Horizontal	148	2.41	-
2480MHz	Pass	AV	4.97146G	31.85	54.00	-22.15	3.74	3	Vertical	145	1.84	-
2480MHz	Pass	PK	4.95124G	45.66	74.00	-28.34	3.69	3	Vertical	145	1.84	-
2480MHz	Pass	AV	4.97182G	31.85	54.00	-22.15	3.74	3	Horizontal	12	2.17	-
2480MHz	Pass	PK	4.96636G	46.02	74.00	-27.98	3.73	3	Horizontal	12	2.17	-
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3898G	47.02	54.00	-6.98	32.01	3	Vertical	81	2.82	-
2402MHz	Pass	AV	2.402G	93.05	Inf	-Inf	32.04	3	Vertical	81	2.82	-
2402MHz	Pass	PK	2.3538G	58.71	74.00	-15.29	31.88	3	Vertical	81	2.82	-
2402MHz	Pass	PK	2.4022G	101.73	Inf	-Inf	32.05	3	Vertical	81	2.82	-
2402MHz	Pass	AV	2.3898G	47.02	54.00	-6.98	32.01	3	Horizontal	156	2.55	-
2402MHz	Pass	AV	2.402G	94.37	Inf	-Inf	32.04	3	Horizontal	156	2.55	-
2402MHz	Pass	PK	2.3762G	58.96	74.00	-15.04	31.96	3	Horizontal	156	2.55	-
2402MHz	Pass	PK	2.4022G	103.12	Inf	-Inf	32.05	3	Horizontal	156	2.55	-
2441MHz	Pass	AV	2.3898G	47.02	54.00	-6.98	32.01	3	Vertical	90	2.46	-
2441MHz	Pass	AV	2.441G	93.84	Inf	-Inf	32.16	3	Vertical	90	2.46	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2441MHz	Pass	AV	2.4982G	48.09	54.00	-5.91	32.34	3	Vertical	90	2.46	-
2441MHz	Pass	PK	2.3498G	59.57	74.00	-14.43	31.87	3	Vertical	90	2.46	-
2441MHz	Pass	PK	2.4414G	102.60	Inf	-Inf	32.16	3	Vertical	90	2.46	-
2441MHz	Pass	PK	2.4986G	60.56	74.00	-13.44	32.34	3	Vertical	90	2.46	-
2441MHz	Pass	AV	2.3898G	47.02	54.00	-6.98	32.01	3	Horizontal	28	2.97	-
2441MHz	Pass	AV	2.441G	94.07	Inf	-Inf	32.16	3	Horizontal	28	2.97	-
2441MHz	Pass	AV	2.4982G	48.09	54.00	-5.91	32.34	3	Horizontal	28	2.97	-
2441MHz	Pass	PK	2.3806G	59.04	74.00	-14.96	31.97	3	Horizontal	28	2.97	-
2441MHz	Pass	PK	2.441G	103.09	Inf	-Inf	32.16	3	Horizontal	28	2.97	-
2441MHz	Pass	PK	2.4866G	59.88	74.00	-14.12	32.30	3	Horizontal	28	2.97	-
2480MHz	Pass	AV	2.48G	94.64	Inf	-Inf	32.28	3	Vertical	86	2.65	-
2480MHz	Pass	AV	2.498G	48.09	54.00	-5.91	32.34	3	Vertical	86	2.65	-
2480MHz	Pass	PK	2.4802G	103.21	Inf	-Inf	32.28	3	Vertical	86	2.65	-
2480MHz	Pass	PK	2.4982G	60.56	74.00	-13.44	32.34	3	Vertical	86	2.65	-
2480MHz	Pass	AV	2.48G	95.97	Inf	-Inf	32.28	3	Horizontal	165	2.96	-
2480MHz	Pass	AV	2.498G	48.09	54.00	-5.91	32.34	3	Horizontal	165	2.96	-
2480MHz	Pass	PK	2.4802G	104.76	Inf	-Inf	32.28	3	Horizontal	165	2.96	-
2480MHz	Pass	PK	2.4922G	60.53	74.00	-13.47	32.32	3	Horizontal	165	2.96	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3898G	47.02	54.00	-6.98	32.01	3	Vertical	71	2.83	-
2402MHz	Pass	AV	2.402G	93.34	Inf	-Inf	32.04	3	Vertical	71	2.83	-
2402MHz	Pass	PK	2.3694G	59.49	74.00	-14.51	31.94	3	Vertical	71	2.83	-
2402MHz	Pass	PK	2.402G	102.08	Inf	-Inf	32.04	3	Vertical	71	2.83	-
2402MHz	Pass	AV	2.3898G	47.02	54.00	-6.98	32.01	3	Horizontal	161	2.27	-
2402MHz	Pass	AV	2.402G	94.33	Inf	-Inf	32.04	3	Horizontal	161	2.27	-
2402MHz	Pass	PK	2.3616G	59.19	74.00	-14.81	31.91	3	Horizontal	161	2.27	-
2402MHz	Pass	PK	2.402G	103.24	Inf	-Inf	32.04	3	Horizontal	161	2.27	-
2441MHz	Pass	AV	2.3898G	47.02	54.00	-6.98	32.01	3	Vertical	87	2.46	-
2441MHz	Pass	AV	2.441G	93.87	Inf	-Inf	32.16	3	Vertical	87	2.46	-
2441MHz	Pass	AV	2.4982G	48.09	54.00	-5.91	32.34	3	Vertical	87	2.46	-
2441MHz	Pass	PK	2.3606G	58.98	74.00	-15.02	31.91	3	Vertical	87	2.46	-
2441MHz	Pass	PK	2.441G	102.96	Inf	-Inf	32.16	3	Vertical	87	2.46	-
2441MHz	Pass	PK	2.4902G	59.74	74.00	-14.26	32.31	3	Vertical	87	2.46	-
2441MHz	Pass	AV	2.3898G	47.02	54.00	-6.98	32.01	3	Horizontal	32	1.98	-
2441MHz	Pass	AV	2.441G	94.43	Inf	-Inf	32.16	3	Horizontal	32	1.98	-
2441MHz	Pass	AV	2.4982G	48.09	54.00	-5.91	32.34	3	Horizontal	32	1.98	-
2441MHz	Pass	PK	2.3422G	58.77	74.00	-15.23	31.84	3	Horizontal	32	1.98	-
2441MHz	Pass	PK	2.441G	103.57	Inf	-Inf	32.16	3	Horizontal	32	1.98	-
2441MHz	Pass	PK	2.4986G	59.70	74.00	-14.30	32.34	3	Horizontal	32	1.98	-
2480MHz	Pass	AV	2.48G	94.56	Inf	-Inf	32.28	3	Vertical	87	2.65	-
2480MHz	Pass	AV	2.498G	48.09	54.00	-5.91	32.34	3	Vertical	87	2.65	-
2480MHz	Pass	PK	2.48G	103.36	Inf	-Inf	32.28	3	Vertical	87	2.65	-
2480MHz	Pass	PK	2.4992G	60.69	74.00	-13.31	32.34	3	Vertical	87	2.65	-
2480MHz	Pass	AV	2.48G	95.96	Inf	-Inf	32.28	3	Horizontal	151	2.17	-
2480MHz	Pass	AV	2.498G	48.09	54.00	-5.91	32.34	3	Horizontal	151	2.17	-
2480MHz	Pass	PK	2.48G	104.54	Inf	-Inf	32.28	3	Horizontal	151	2.17	-
2480MHz	Pass	PK	2.4906G	60.32	74.00	-13.68	32.31	3	Horizontal	151	2.17	-

BT-BR(1Mbps)

2402MHz_TX

22/08/2018

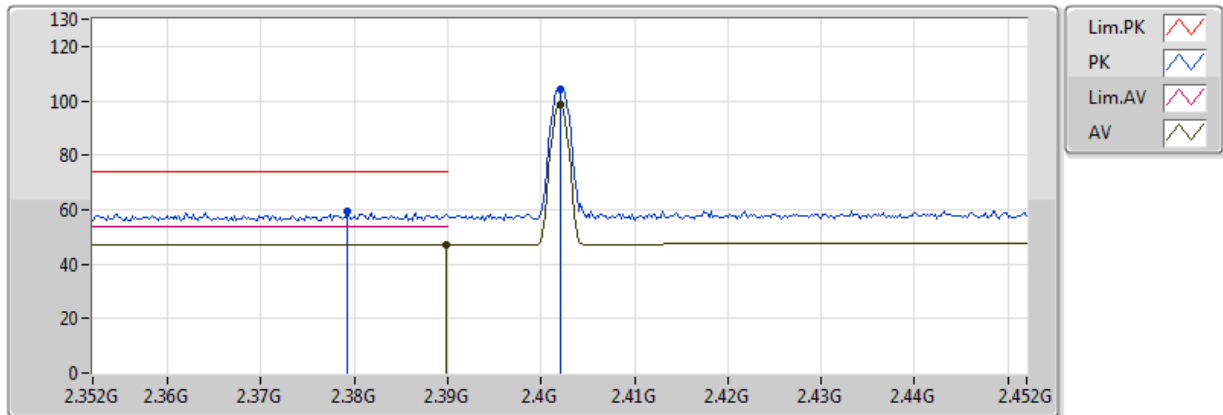


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	47.02	54.00	-6.98	32.01	3	Vertical	69	2.82	-
AV	2.402G	97.12	Inf	-Inf	32.04	3	Vertical	69	2.82	-
PK	2.3882G	59.92	74.00	-14.08	32.00	3	Vertical	69	2.82	-
PK	2.4022G	103.11	Inf	-Inf	32.05	3	Vertical	69	2.82	-

BT-BR(1Mbps)

2402MHz_TX

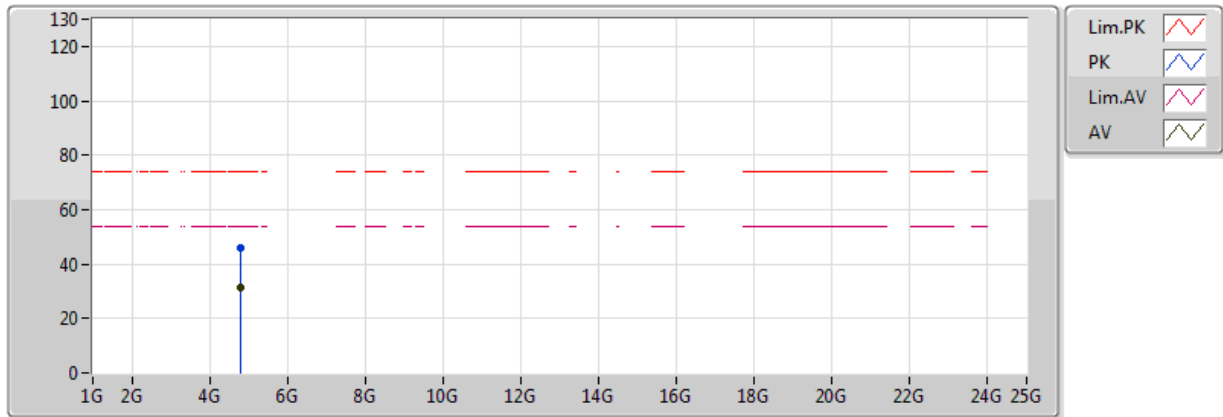
22/08/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	47.02	54.00	-6.98	32.01	3	Horizontal	162	2.28	-
AV	2.402G	98.35	Inf	-Inf	32.04	3	Horizontal	162	2.28	-
PK	2.3792G	59.32	74.00	-14.68	31.97	3	Horizontal	162	2.28	-
PK	2.402G	104.37	Inf	-Inf	32.04	3	Horizontal	162	2.28	-

BT-BR(1Mbps)
2402MHz_TX

22/08/2018

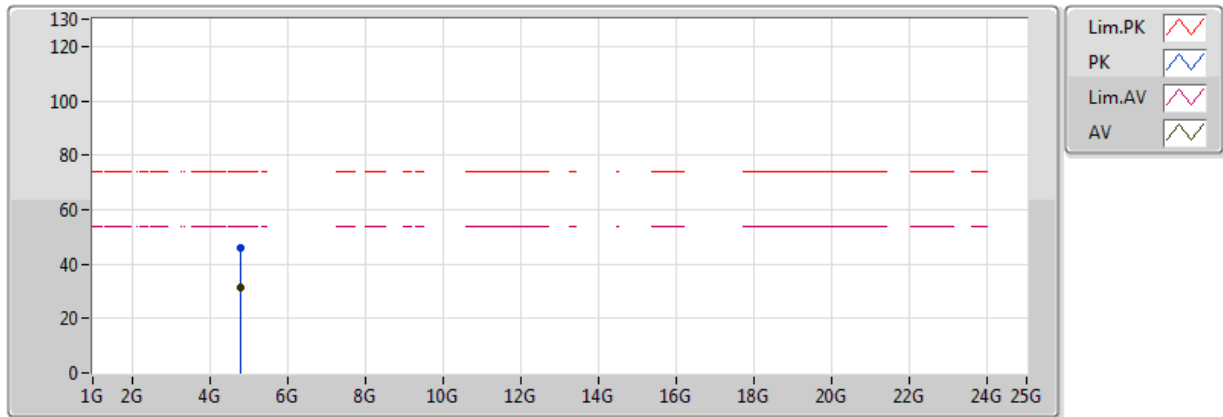


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.7923G	31.60	54.00	-22.40	3.31	3	Vertical	241	1.98	-
PK	4.80112G	45.70	74.00	-28.30	3.33	3	Vertical	241	1.98	-

BT-BR(1Mbps)

2402MHz_TX

22/08/2018

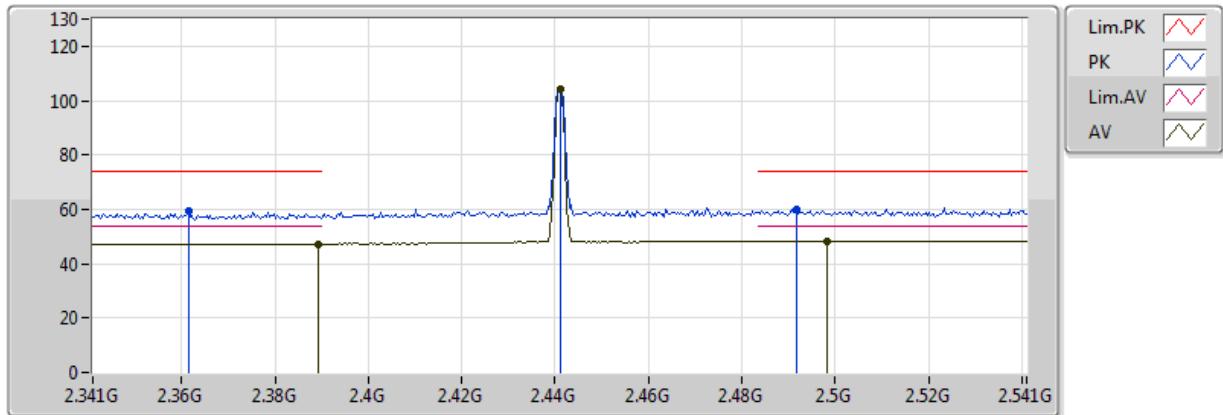


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.79314G	31.57	54.00	-22.43	3.31	3	Horizontal	191	1.56	-
PK	4.78924G	45.69	74.00	-28.31	3.30	3	Horizontal	191	1.56	-

BT-BR(1Mbps)

2441MHz_TX

22/08/2018

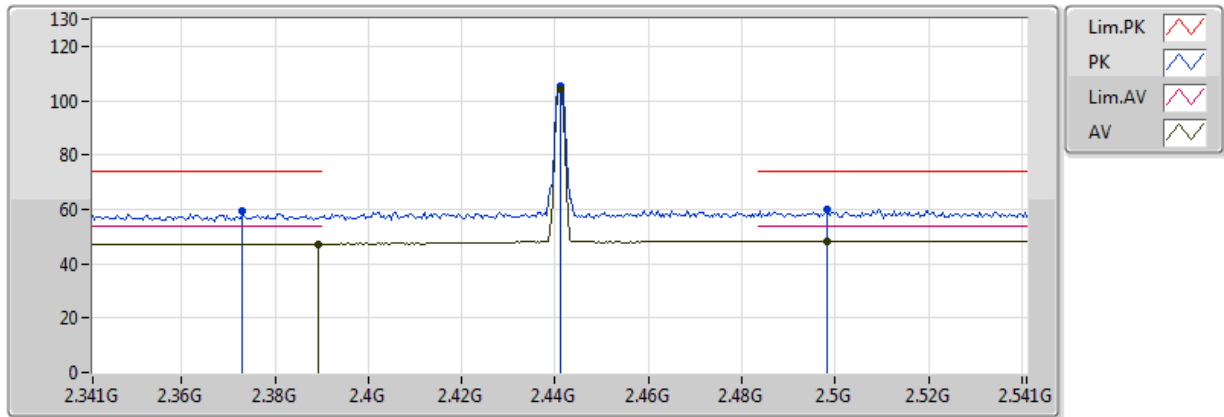


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	47.29	54.00	-6.71	32.00	3	Vertical	86	2.46	-
AV	2.441G	104.12	Inf	-Inf	32.16	3	Vertical	86	2.46	-
AV	2.4982G	48.37	54.00	-5.63	32.34	3	Vertical	86	2.46	-
PK	2.3614G	59.33	74.00	-14.67	31.91	3	Vertical	86	2.46	-
PK	2.441G	104.24	Inf	-Inf	32.16	3	Vertical	86	2.46	-
PK	2.4918G	60.04	74.00	-13.96	32.32	3	Vertical	86	2.46	-

BT-BR(1Mbps)

2441MHz_TX

22/08/2018

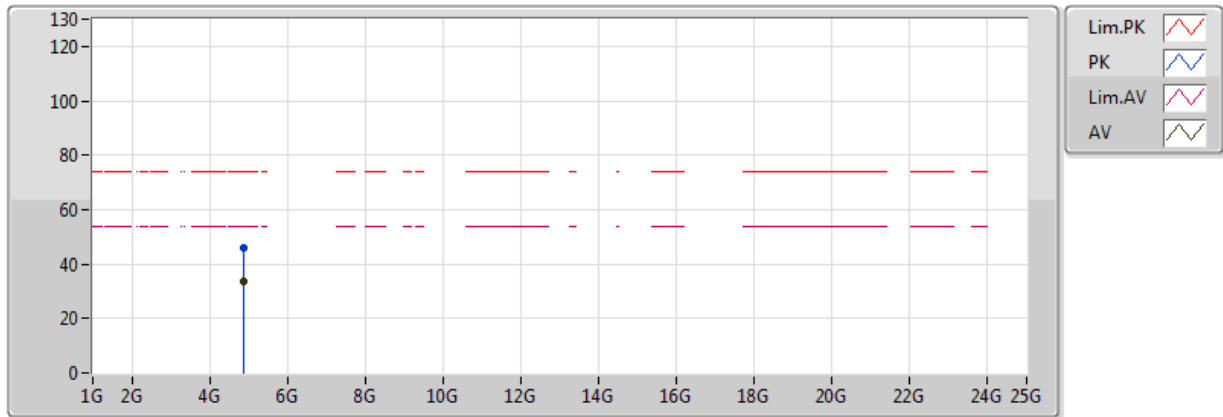


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	47.29	54.00	-6.71	32.00	3	Horizontal	31	1.98	-
AV	2.441G	104.26	Inf	-Inf	32.16	3	Horizontal	31	1.98	-
AV	2.4982G	48.37	54.00	-5.63	32.34	3	Horizontal	31	1.98	-
PK	2.373G	59.16	74.00	-14.84	31.95	3	Horizontal	31	1.98	-
PK	2.441G	105.12	Inf	-Inf	32.16	3	Horizontal	31	1.98	-
PK	2.4982G	59.85	74.00	-14.15	32.34	3	Horizontal	31	1.98	-

BT-BR(1Mbps)

2441MHz_TX

22/08/2018

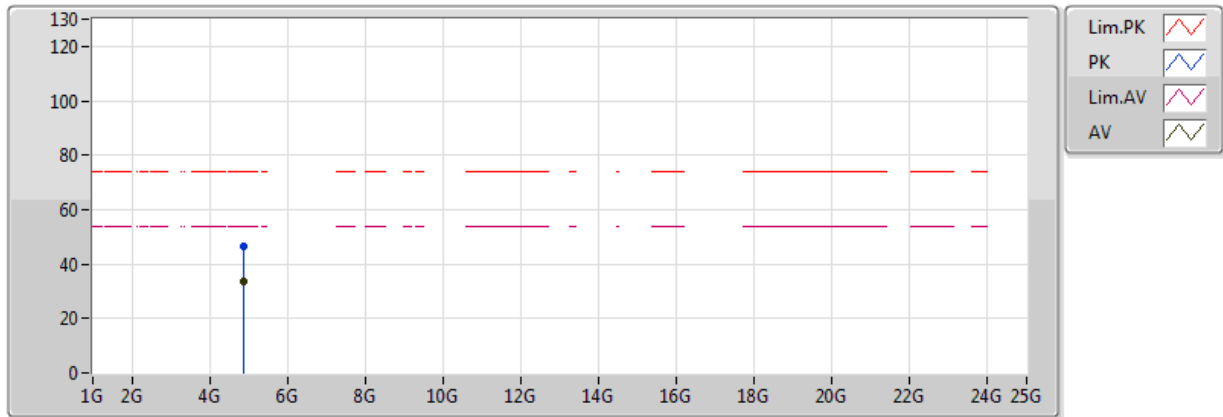


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.88236G	33.71	54.00	-20.29	3.53	3	Vertical	200	1.50	-
PK	4.87714G	45.94	74.00	-28.06	3.52	3	Vertical	200	1.50	-

BT-BR(1Mbps)

2441MHz_TX

22/08/2018

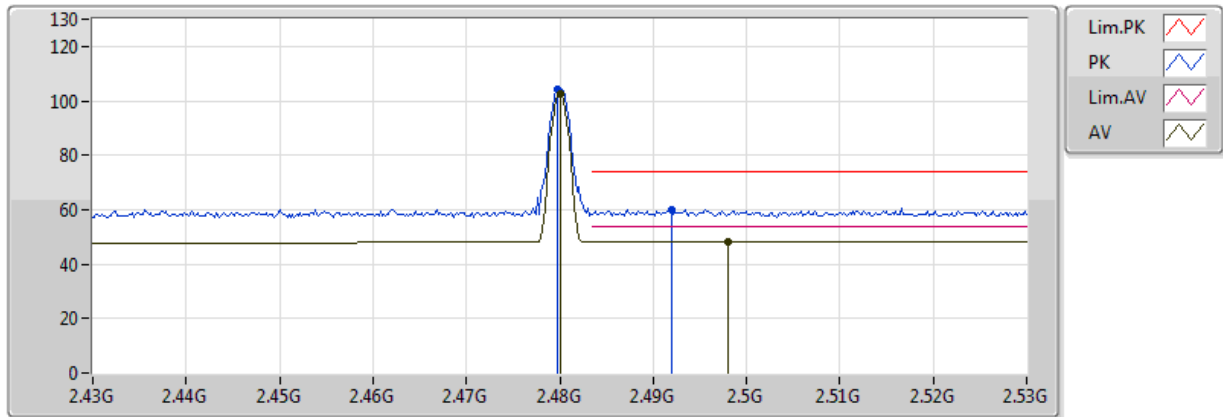


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.89346G	33.65	54.00	-20.35	3.56	3	Horizontal	117	1.50	-
PK	4.89166G	46.29	74.00	-27.71	3.55	3	Horizontal	117	1.50	-

BT-BR(1Mbps)

2480MHz_TX

22/08/2018

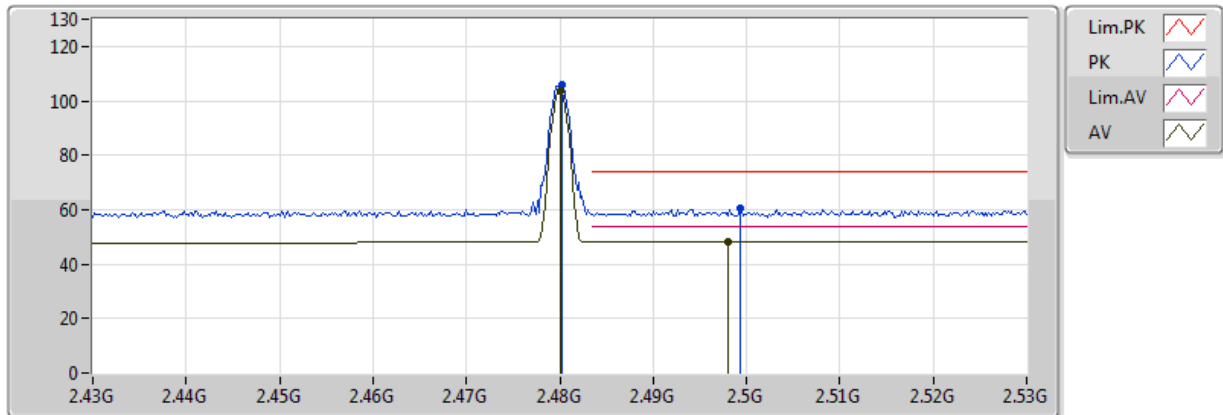


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.48G	102.34	Inf	-Inf	32.28	3	Vertical	87	2.65	-
AV	2.498G	48.09	54.00	-5.91	32.34	3	Vertical	87	2.65	-
PK	2.4798G	104.44	Inf	-Inf	32.28	3	Vertical	87	2.65	-
PK	2.492G	59.97	74.00	-14.03	32.32	3	Vertical	87	2.65	-

BT-BR(1Mbps)

2480MHz_TX

22/08/2018

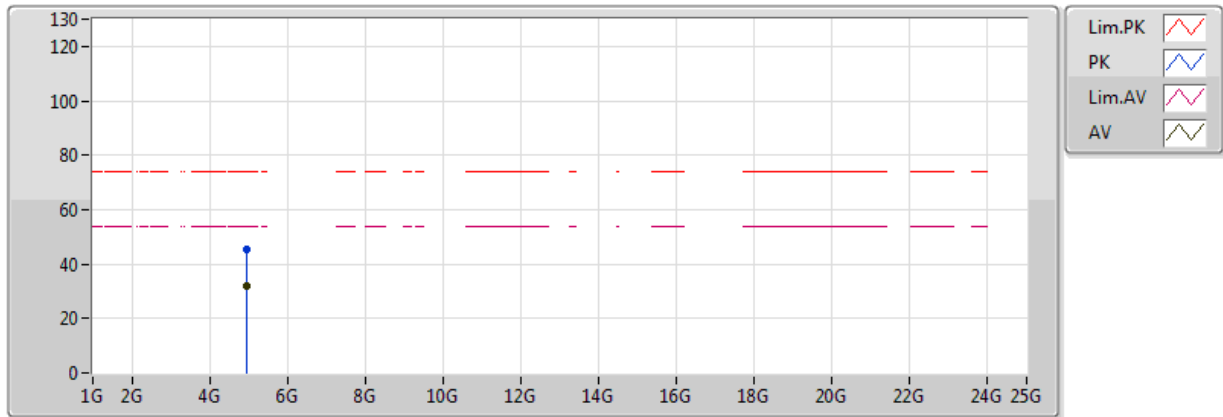


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.48G	103.53	Inf	-Inf	32.28	3	Horizontal	148	2.41	-
AV	2.498G	48.09	54.00	-5.91	32.34	3	Horizontal	148	2.41	-
PK	2.4802G	105.64	Inf	-Inf	32.28	3	Horizontal	148	2.41	-
PK	2.4994G	60.28	74.00	-13.72	32.34	3	Horizontal	148	2.41	-

BT-BR(1Mbps)

2480MHz_TX

22/08/2018

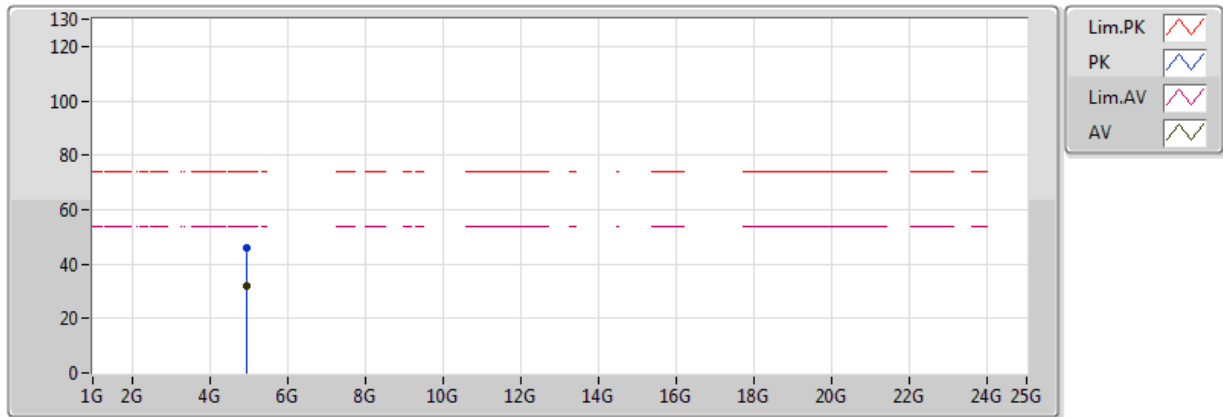


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.97146G	31.85	54.00	-22.15	3.74	3	Vertical	145	1.84	-
PK	4.95124G	45.66	74.00	-28.34	3.69	3	Vertical	145	1.84	-

BT-BR(1Mbps)

2480MHz_TX

22/08/2018

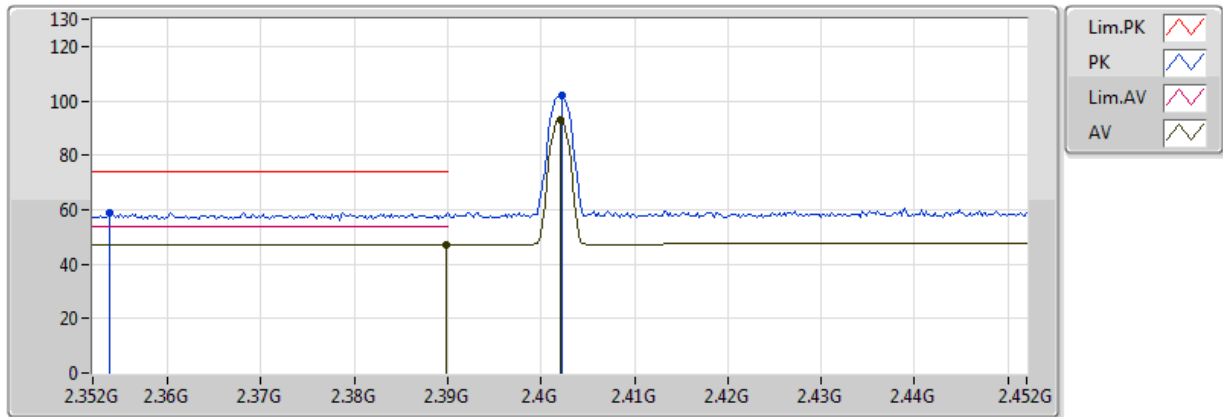


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.97182G	31.85	54.00	-22.15	3.74	3	Horizontal	12	2.17	-
PK	4.96636G	46.02	74.00	-27.98	3.73	3	Horizontal	12	2.17	-

BT-EDR(2Mbps)

2402MHz_TX

22/08/2018

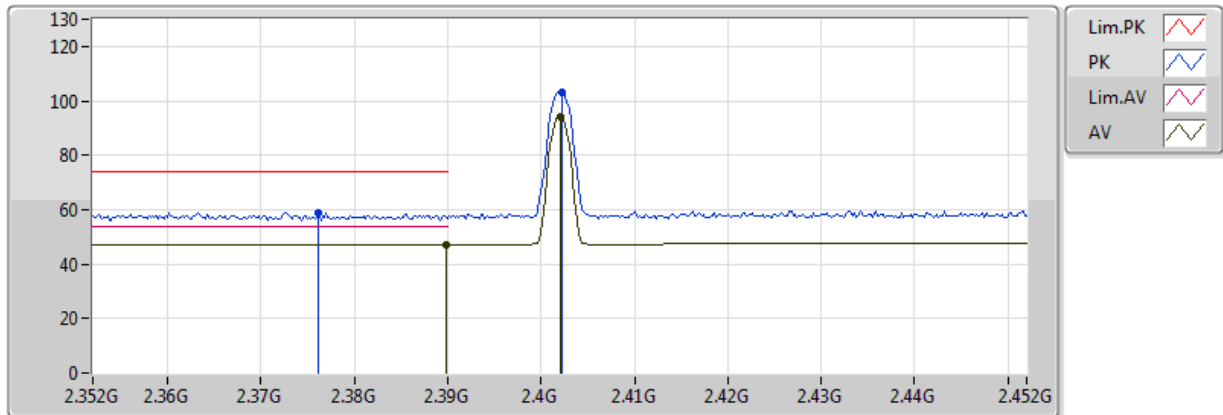


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	47.02	54.00	-6.98	32.01	3	Vertical	81	2.82	-
AV	2.402G	93.05	Inf	-Inf	32.04	3	Vertical	81	2.82	-
PK	2.3538G	58.71	74.00	-15.29	31.88	3	Vertical	81	2.82	-
PK	2.4022G	101.73	Inf	-Inf	32.05	3	Vertical	81	2.82	-

BT-EDR(2Mbps)

2402MHz_TX

22/08/2018

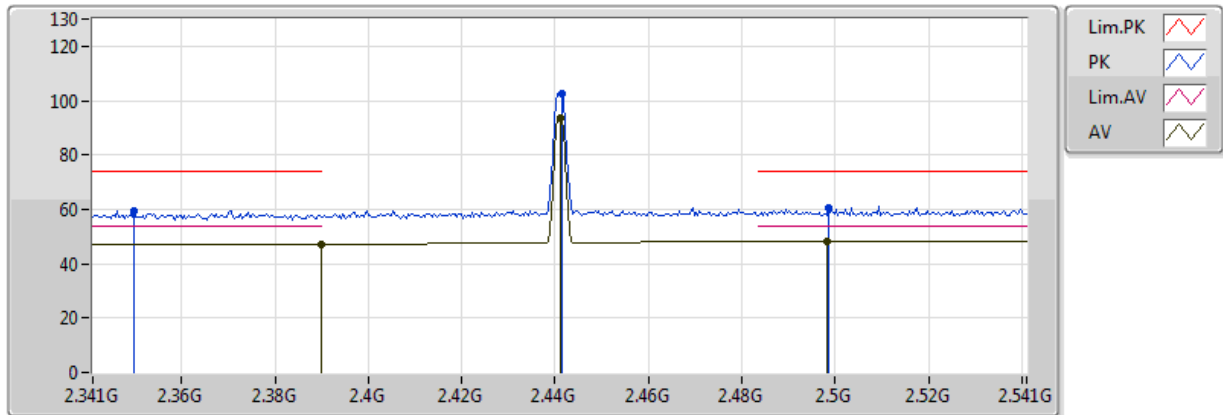


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	47.02	54.00	-6.98	32.01	3	Horizontal	156	2.55	-
AV	2.402G	94.37	Inf	-Inf	32.04	3	Horizontal	156	2.55	-
PK	2.3762G	58.96	74.00	-15.04	31.96	3	Horizontal	156	2.55	-
PK	2.4022G	103.12	Inf	-Inf	32.05	3	Horizontal	156	2.55	-

BT-EDR(2Mbps)

2441MHz_TX

22/08/2018

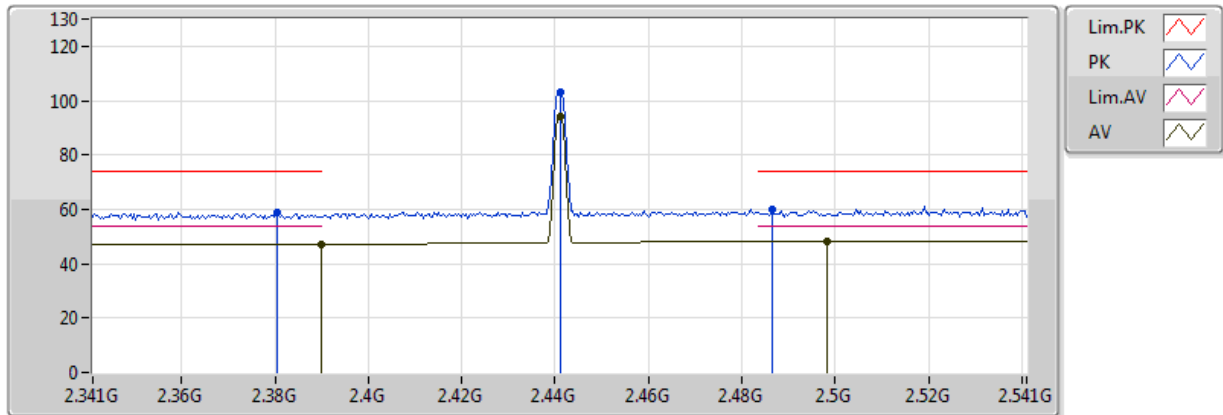


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	47.02	54.00	-6.98	32.01	3	Vertical	90	2.46	-
AV	2.441G	93.84	Inf	-Inf	32.16	3	Vertical	90	2.46	-
AV	2.4982G	48.09	54.00	-5.91	32.34	3	Vertical	90	2.46	-
PK	2.3498G	59.57	74.00	-14.43	31.87	3	Vertical	90	2.46	-
PK	2.4414G	102.60	Inf	-Inf	32.16	3	Vertical	90	2.46	-
PK	2.4986G	60.56	74.00	-13.44	32.34	3	Vertical	90	2.46	-

BT-EDR(2Mbps)

2441MHz_TX

22/08/2018

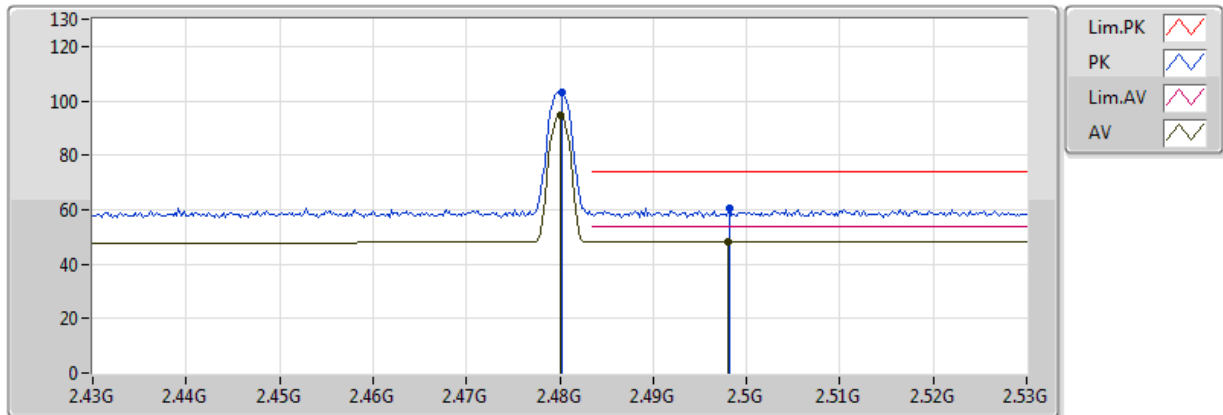


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	47.02	54.00	-6.98	32.01	3	Horizontal	28	2.97	-
AV	2.441G	94.07	Inf	-Inf	32.16	3	Horizontal	28	2.97	-
AV	2.4982G	48.09	54.00	-5.91	32.34	3	Horizontal	28	2.97	-
PK	2.3806G	59.04	74.00	-14.96	31.97	3	Horizontal	28	2.97	-
PK	2.441G	103.09	Inf	-Inf	32.16	3	Horizontal	28	2.97	-
PK	2.4866G	59.88	74.00	-14.12	32.30	3	Horizontal	28	2.97	-

BT-EDR(2Mbps)

2480MHz_TX

22/08/2018

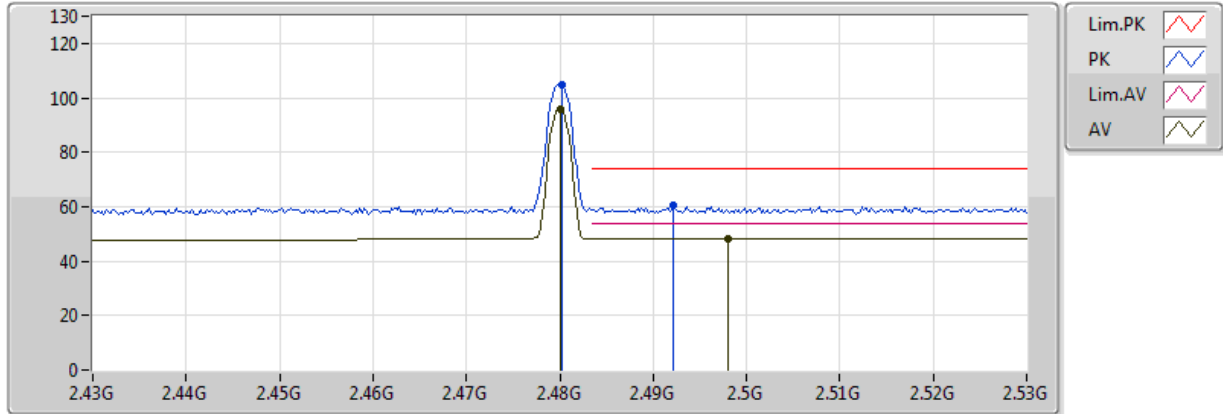


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.48G	94.64	Inf	-Inf	32.28	3	Vertical	86	2.65	-
AV	2.498G	48.09	54.00	-5.91	32.34	3	Vertical	86	2.65	-
PK	2.4802G	103.21	Inf	-Inf	32.28	3	Vertical	86	2.65	-
PK	2.4982G	60.56	74.00	-13.44	32.34	3	Vertical	86	2.65	-

BT-EDR(2Mbps)

2480MHz_TX

22/08/2018

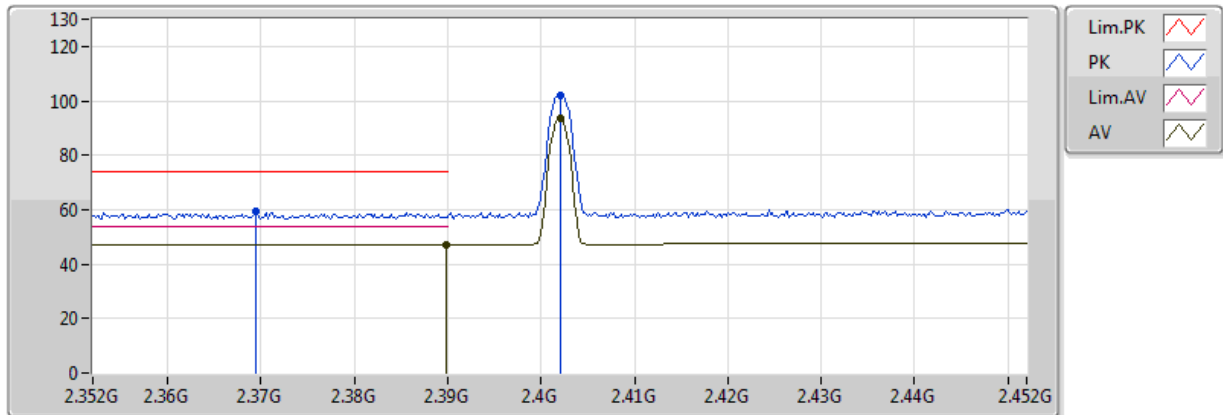


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.48G	95.97	Inf	-Inf	32.28	3	Horizontal	165	2.96	-
AV	2.498G	48.09	54.00	-5.91	32.34	3	Horizontal	165	2.96	-
PK	2.4802G	104.76	Inf	-Inf	32.28	3	Horizontal	165	2.96	-
PK	2.4922G	60.53	74.00	-13.47	32.32	3	Horizontal	165	2.96	-

BT-EDR(3Mbps)

2402MHz_TX

22/08/2018

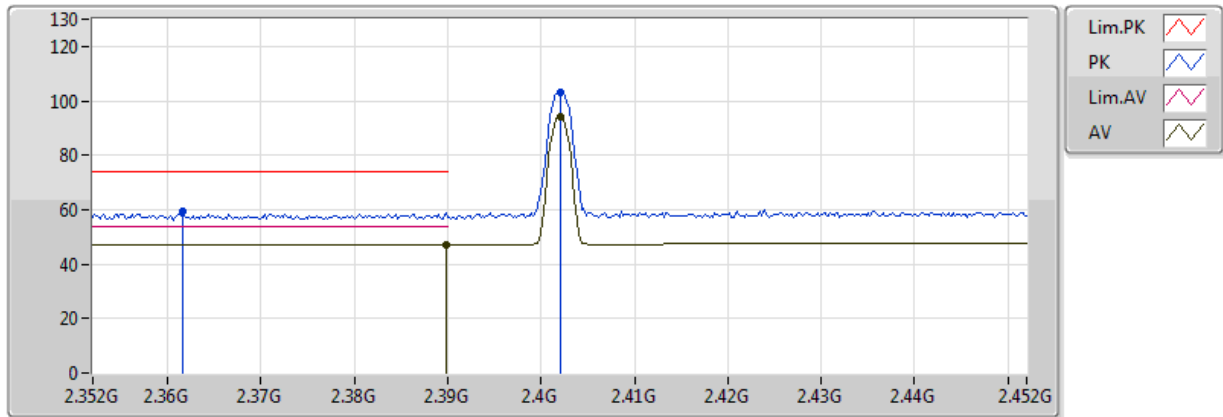


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	47.02	54.00	-6.98	32.01	3	Vertical	71	2.83	-
AV	2.402G	93.34	Inf	-Inf	32.04	3	Vertical	71	2.83	-
PK	2.3694G	59.49	74.00	-14.51	31.94	3	Vertical	71	2.83	-
PK	2.402G	102.08	Inf	-Inf	32.04	3	Vertical	71	2.83	-

BT-EDR(3Mbps)

2402MHz_TX

22/08/2018

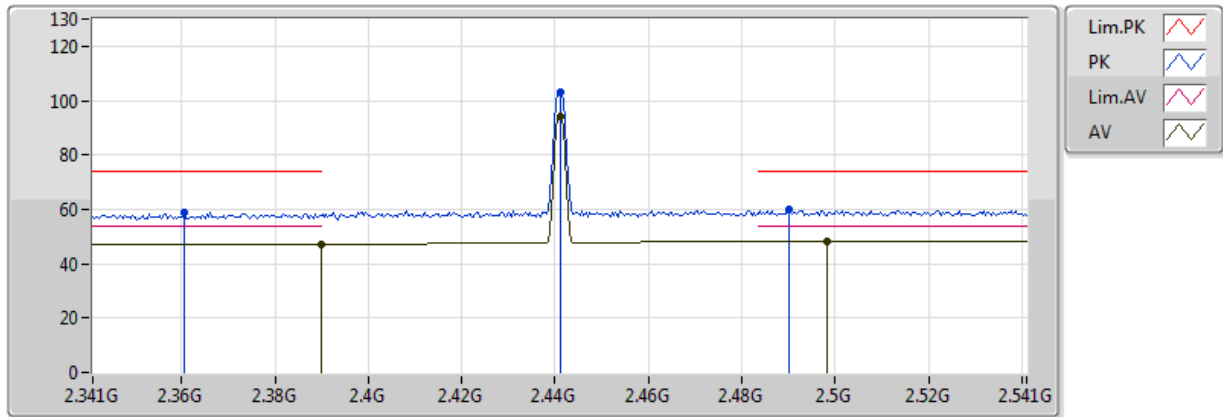


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	47.02	54.00	-6.98	32.01	3	Horizontal	161	2.27	-
AV	2.402G	94.33	Inf	-Inf	32.04	3	Horizontal	161	2.27	-
PK	2.3616G	59.19	74.00	-14.81	31.91	3	Horizontal	161	2.27	-
PK	2.402G	103.24	Inf	-Inf	32.04	3	Horizontal	161	2.27	-

BT-EDR(3Mbps)

2441MHz_TX

22/08/2018

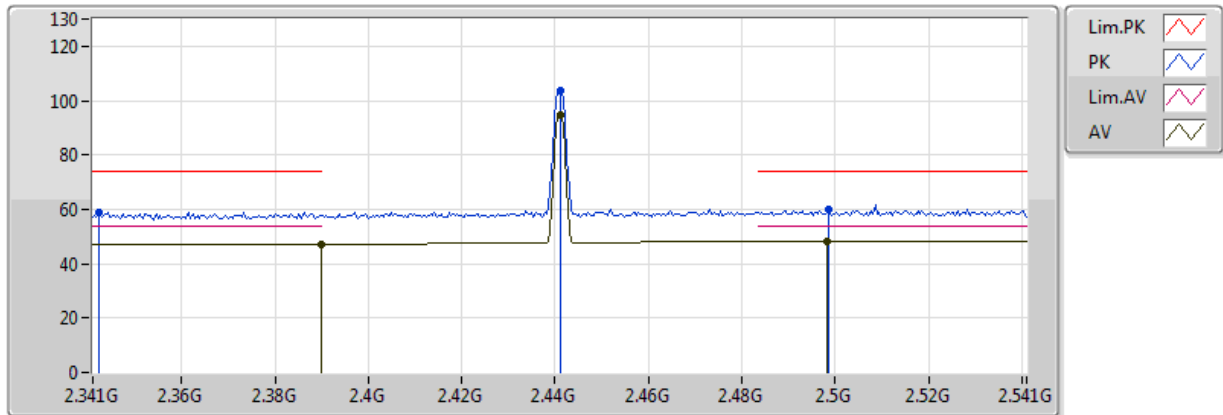


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	47.02	54.00	-6.98	32.01	3	Vertical	87	2.46	-
AV	2.441G	93.87	Inf	-Inf	32.16	3	Vertical	87	2.46	-
AV	2.4982G	48.09	54.00	-5.91	32.34	3	Vertical	87	2.46	-
PK	2.3606G	58.98	74.00	-15.02	31.91	3	Vertical	87	2.46	-
PK	2.441G	102.96	Inf	-Inf	32.16	3	Vertical	87	2.46	-
PK	2.4902G	59.74	74.00	-14.26	32.31	3	Vertical	87	2.46	-

BT-EDR(3Mbps)

2441MHz_TX

22/08/2018

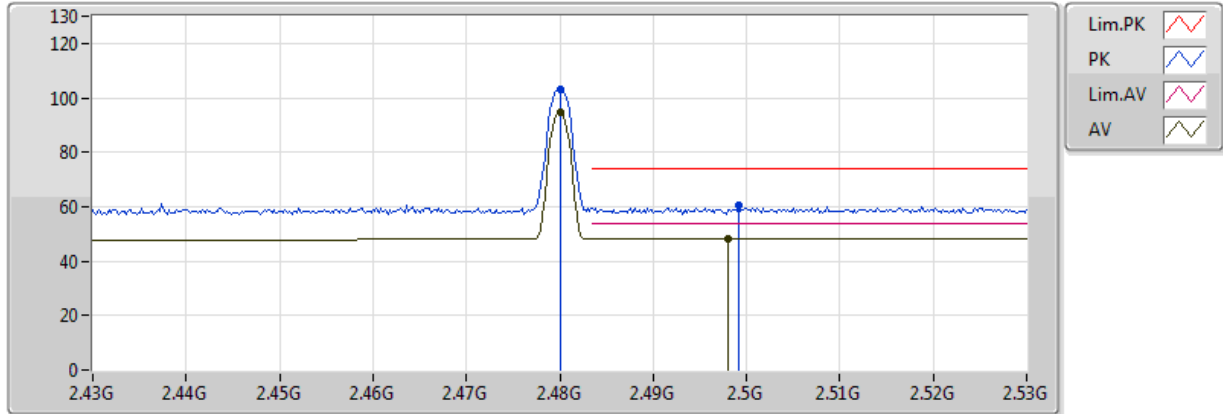


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	47.02	54.00	-6.98	32.01	3	Horizontal	32	1.98	-
AV	2.441G	94.43	Inf	-Inf	32.16	3	Horizontal	32	1.98	-
AV	2.4982G	48.09	54.00	-5.91	32.34	3	Horizontal	32	1.98	-
PK	2.3422G	58.77	74.00	-15.23	31.84	3	Horizontal	32	1.98	-
PK	2.441G	103.57	Inf	-Inf	32.16	3	Horizontal	32	1.98	-
PK	2.4986G	59.70	74.00	-14.30	32.34	3	Horizontal	32	1.98	-

BT-EDR(3Mbps)

2480MHz_TX

22/08/2018

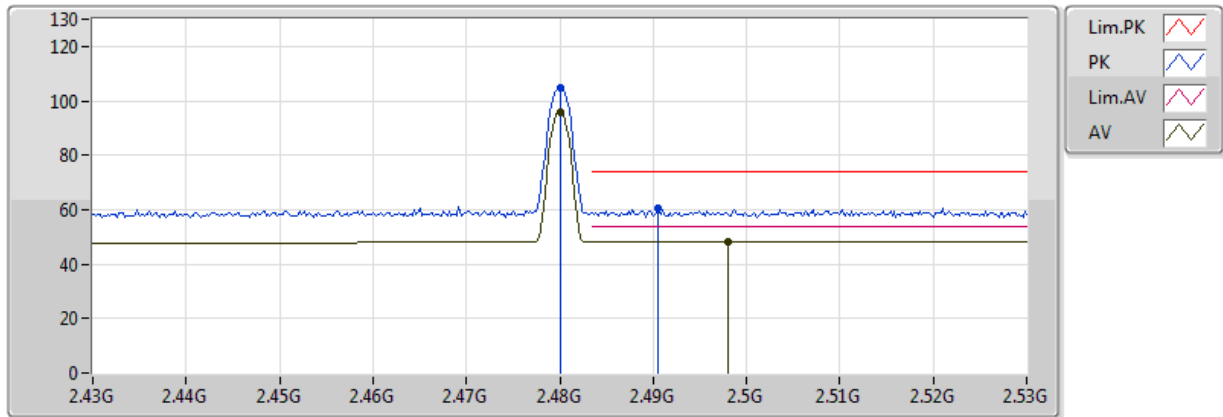


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.48G	94.56	Inf	-Inf	32.28	3	Vertical	87	2.65	-
AV	2.498G	48.09	54.00	-5.91	32.34	3	Vertical	87	2.65	-
PK	2.48G	103.36	Inf	-Inf	32.28	3	Vertical	87	2.65	-
PK	2.4992G	60.69	74.00	-13.31	32.34	3	Vertical	87	2.65	-

BT-EDR(3Mbps)

2480MHz_TX

22/08/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.48G	95.96	Inf	-Inf	32.28	3	Horizontal	151	2.17	-
AV	2.498G	48.09	54.00	-5.91	32.34	3	Horizontal	151	2.17	-
PK	2.48G	104.54	Inf	-Inf	32.28	3	Horizontal	151	2.17	-
PK	2.4906G	60.32	74.00	-13.68	32.31	3	Horizontal	151	2.17	-