

NCC Test Report

Equipment(中文) : EP910w 營運關鍵無線耳機 PTT
Equipment : EP910w Operation Critical Wireless Earpiece PTT
Brand Name : MOTOROLA SOLUTIONS
Model Name : PMLN8123A
Applicant : 摩托羅拉系統股份有限公司
臺北市中山區民生東路 3 段 2 號 5 樓之 1
Manufacturer : Motorola Solutions Malaysia Sdn Bhd
Plot 2A, Medan Bayan Lepas, Mukim 12 S.W.D.,
11900 Bayan Lepas, Penang, Malaysia.
Standard : LP0002 Section 3.10 (2018-01-10)

The product was received on Jul. 06, 2020, and testing was started from Jul. 11, 2020 and completed on Jul. 20, 2020. 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 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 : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-C9 Ver4.0



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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	-
3.1	2.3	AC Power-line Conducted Emissions	PASS	-
3.2	3.10.1.6	20dB Bandwidth	PASS	-
3.2	3.10.1.6	Carrier Frequency Separation	PASS	-
3.3	3.10.1.2	Maximum Conducted Output Power	PASS	-
3.4	3.10.1.6	Number of Hopping Frequencies and Hopping Bandedge	PASS	-
3.5	3.10.1.6	Time of Occupancy (Dwell Time)	PASS	-
3.6	3.10.1.5	Emissions in Non-restricted Frequency Bands	PASS	-
3.7	3.10.1.5	Emissions in Restricted Frequency Bands	PASS	-
3.8	2.11	Receiver Radiated Unwanted Emissions	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

None

Reviewed by: Sam Tsai

Report Producer: Ann Hou

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Version	Ch. Frequency (MHz)	Channel Number
2400-2483.5	BR / EDR	2402-2480	0-78 [79]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-BR(1Mbps)	1	1TX
2.4-2.4835GHz	BT-EDR(2Mbps)	1	1TX
2.4-2.4835GHz	BT-EDR(3Mbps)	1	1TX

Note:

- Bluetooth BR uses a GFSK (1Mbps).
- Bluetooth EDR uses a combination of $\pi/4$ -DQPSK (2Mbps) and 8DPSK (3Mbps).
- Bluetooth BR/EDR uses as a system using FHSS modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	嘉光科技	AT3216-T2R4PAAT/LF	Chip Antenna	N/A	-1.0

Note 1: The EUT has one antenna.

For BT function:

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

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

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From AC Adapter / Host system		
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)	0.775	1.11	2.911m	1k
BT-EDR(2Mbps)	0.784	1.06	2.92m	1k
BT-EDR(3Mbps)	0.768	1.15	2.922m	1k

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

1.1.5 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: TR062338AD

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Equipment Name/Model name: EP910w 營運關鍵無線耳機 PTT/ PMLN8123A was added. The differences from the original model are as follows: 1. The button color was replaced to blue 2. Updated the BLE GAT to MSI BLE GATT	N/A

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

The following reference test guidance is not within the scope of accreditation of TAF:

- ♦ KDB 558074 D01 v05r02
- ♦ KDB 414788 D01 v01r01

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	
☒	Wen Shan	ADD : No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)		
		TEL : 886-3-318-0787	FAX : 886-3-318-0287	

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward	23.1~24.5°C / 57~60%	11/Jul/2020
RF Conducted	TH06-HY	Alan	21~26.8°C / 50~60%	11/Jul/2020~16/Jul/2020
Radiated	03CH09-HY	Justin	20.3~23.6°C / 41~58%	17/Jul/2020~20/Jul/2020

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)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	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 Version	BlueTest3
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Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	15
2440MHz	0
2480MHz	10
BT-EDR(2Mbps)	-
2402MHz	37
2440MHz	30
2480MHz	35
BT-EDR(3Mbps)	-
2402MHz	34
2440MHz	25
2480MHz	30

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; TX
2	USB mode; TX
3	Adapter mode; RX
4	USB mode; RX

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 ☒ Non-adaptive frequency hopping systems (Non-AFH) ☒ adaptive frequency hopping systems (AFH)
Non-AFH Mode configuration was found to be the worst case and measured during the test.	

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands Receiver Radiated Spurious 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	Adapter mode		
2	USB mode		
Operating Mode > 1GHz	CTX/CRX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

2.4 Accessories

Accessories				
USB cable	Brand Name	Motorola	Model Name	31320300U10000
	Power Cord	0.3 meter, non-shielded cable, w/o ferrite core		
Battery	Brand Name	MOTOROLA	Model Name	DABF051230SA
	Power Rating	3.7Vdc, 0.5Wh	Type	Li-ion

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

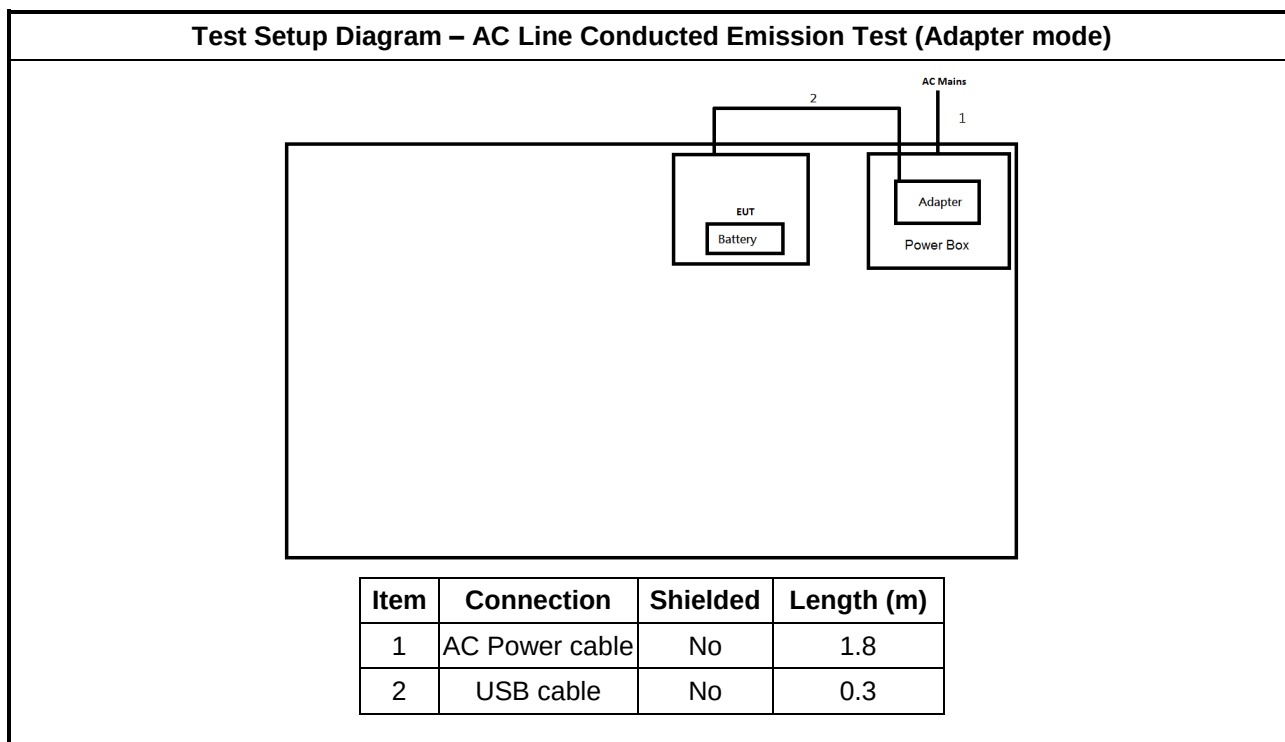
2.5 Support Equipment

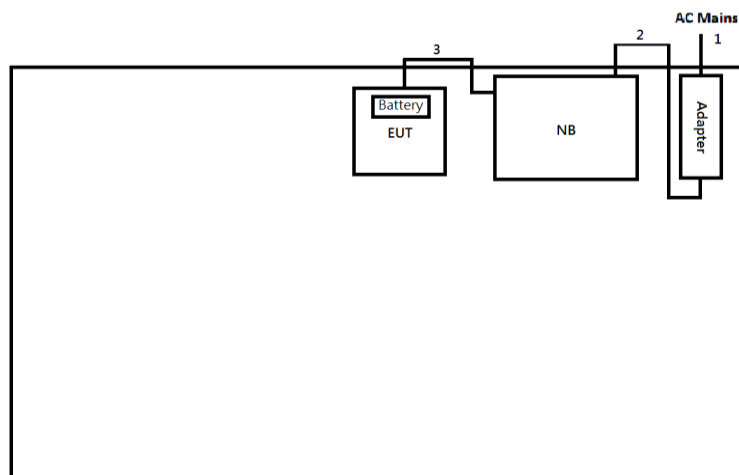
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	PP13S	-	-
2	Adapter for Notebook	DELL	AA90PM111	-	-
3	AC Power Cable for Notebook	Power sync	PW-GPC180-3	-	-
4	iPod	Apple	A1199	-	-
5	30-pin to USB Original Cable	Apple	MA591GC	-	-
6	Earphone	Apple	MD827FEA	-	-
7	AC Adapter	Transcend	PSAI05R-050Q	-	-

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for Notebook	DELL	HA65NM130	-	-
3	USB to SPI	CRS	253531	-	Customer provided

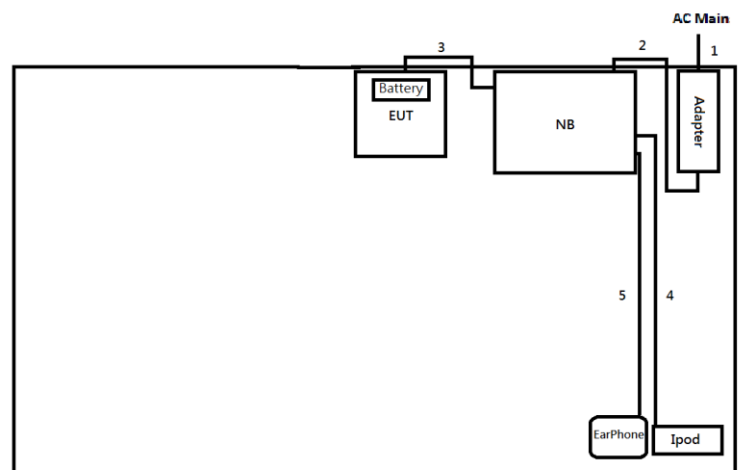
Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	PP13S	-	-
2	Adapter for Notebook	DELL	AA90PM111	-	-
3	AC Power Cable for Notebook	Power sync	PW-GPC180-3	-	-
4	iPod	Apple	A1199	-	-
5	30-pin to USB Original Cable	Apple	MA591GC	-	-
6	Earphone	Apple	MD827FEA	-	-
7	AC Adapter	Transcend	PSAI05R-050Q	-	-

2.6 Test Setup Diagram

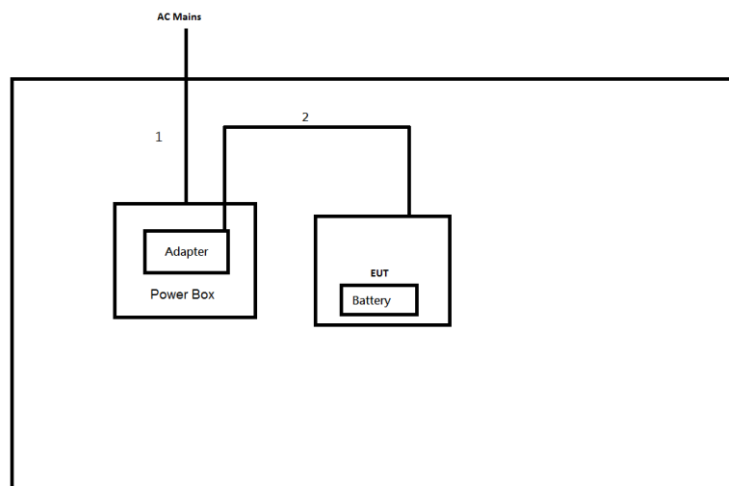


Test Setup Diagram – AC Line Conducted Emission Test (USB mode; TX)


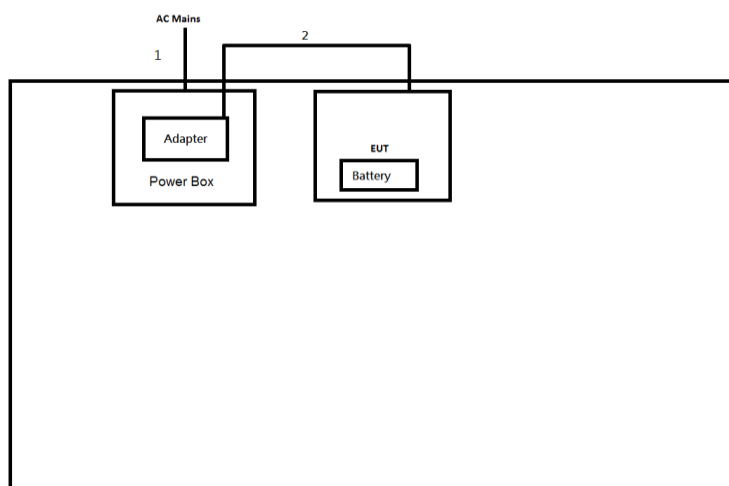
Item	Connection	Shielded	Length (m)
1	AC Power cable	No	1.8
2	DC Power cable	No	1.5
3	USB cable	No	0.3

Test Setup Diagram – AC Line Conducted Emission Test (USB mode; RX)


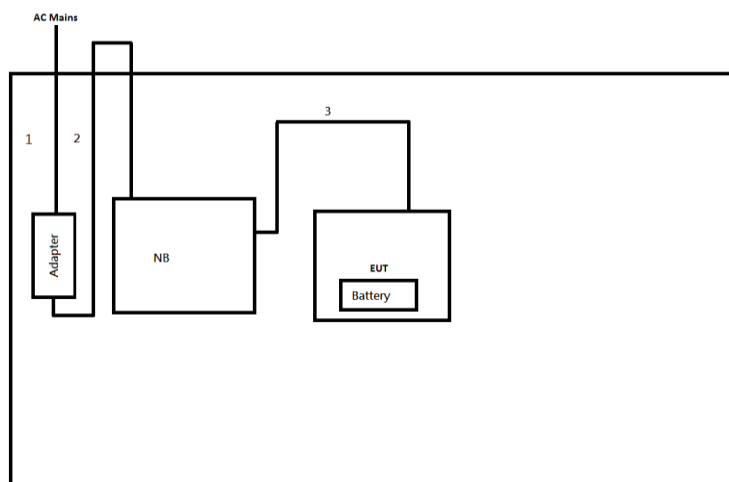
Item	Connection	Shielded	Length (m)
1	AC Power cable	No	1.8
2	DC Power cable	No	1.5
3	USB cable	No	0.3
4	30-pin to USB Original Cable	No	1.0
5	Audio cable	No	1.25

Test Setup Diagram - Radiated Test (Adapter mode; TX)


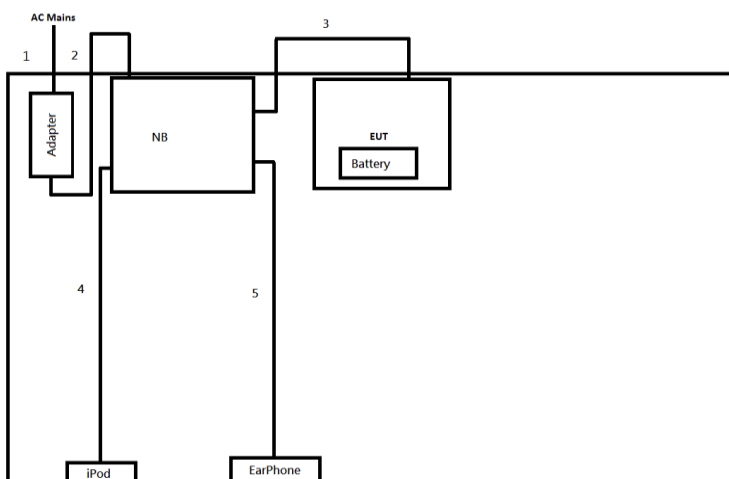
Item	Connection	Shielded	Length (m)
1	AC Power cable	No	1.8
2	USB cable	No	0.3

Test Setup Diagram - Radiated Test (Adapter mode; RX)


Item	Connection	Shielded	Length (m)
1	AC Power cable	No	1.8
2	USB cable	No	0.3

Test Setup Diagram - Radiated Test (USB mode; TX)


Item	Connection	Shielded	Length (m)
1	AC Power cable	No	1.8
2	DC Power cable	No	1.5
3	USB cable	No	0.3

Test Setup Diagram - Radiated Test (USB mode; RX)


Item	Connection	Shielded	Length (m)
1	AC Power cable	No	1.8
2	DC Power cable	No	1.5
3	USB cable	No	0.3
4	30-pin to USB Original Cable	No	1.0
5	Audio cable	No	1.25

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

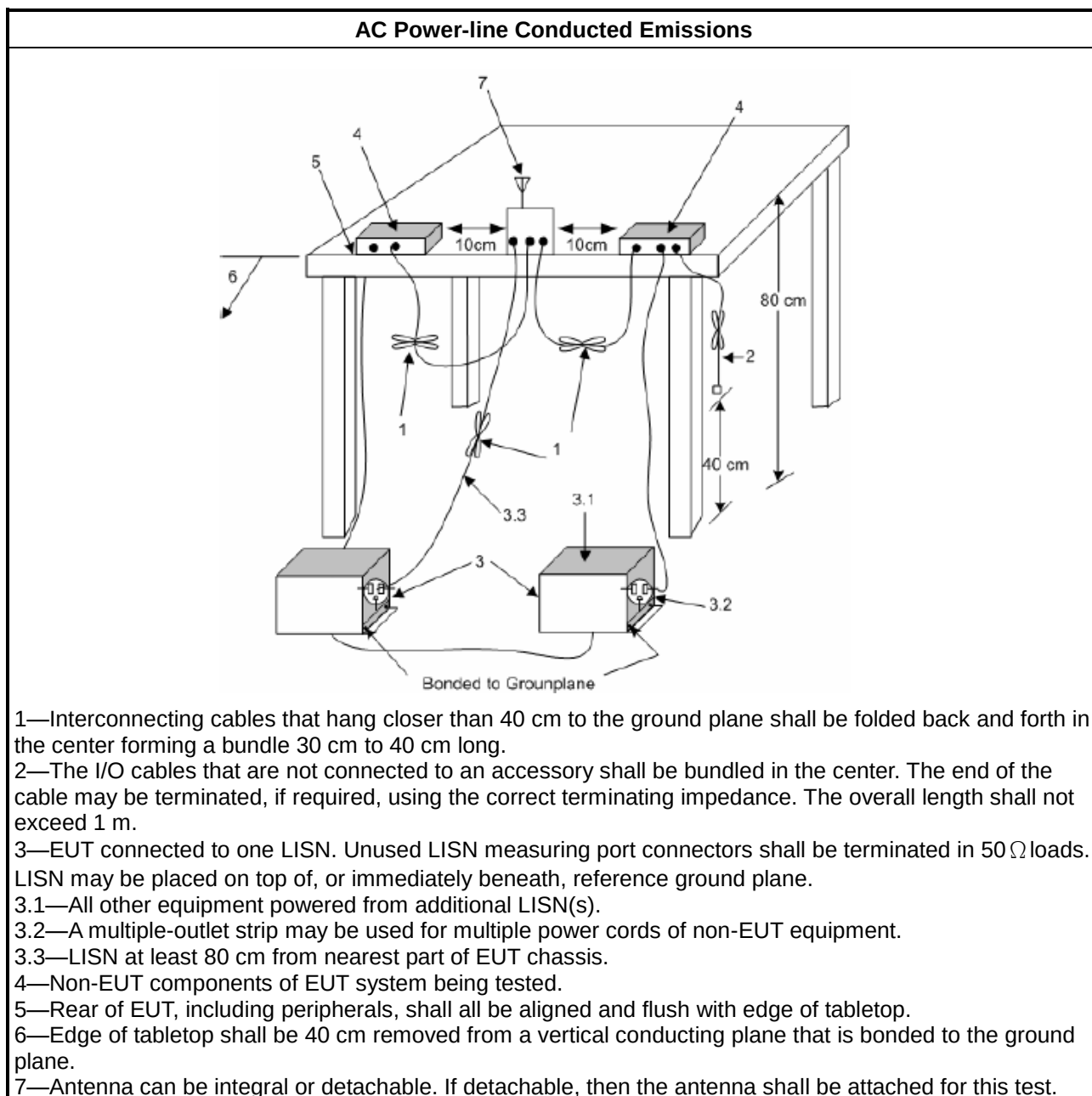
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) - AT(Attenuator).

3.1.5 Test Setup



3.1.6 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	

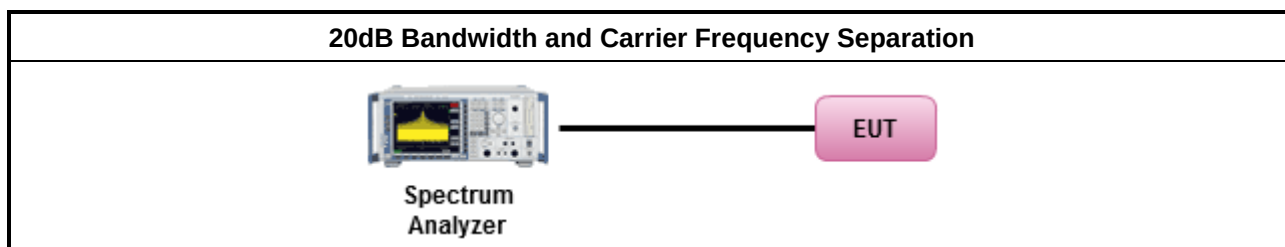
3.2.2 Measuring Instruments

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	

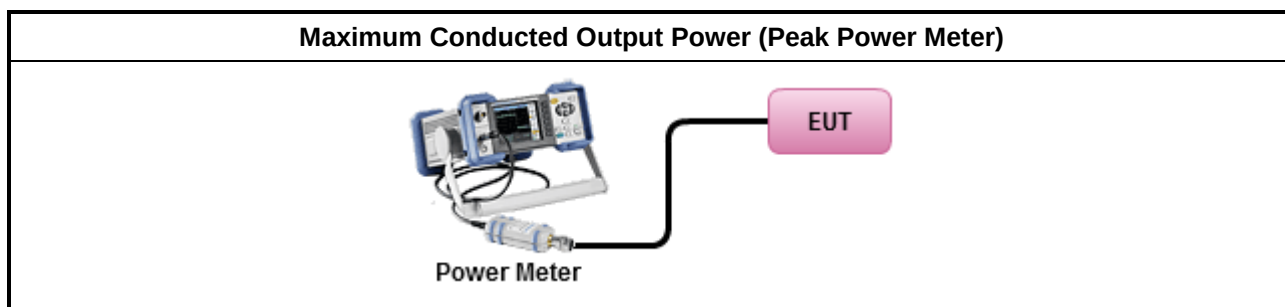
3.3.2 Measuring Instruments

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	
<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	

3.4.2 Hopping Bandedge Limit

Refer clause 3.6.1 and clause 3.7.1

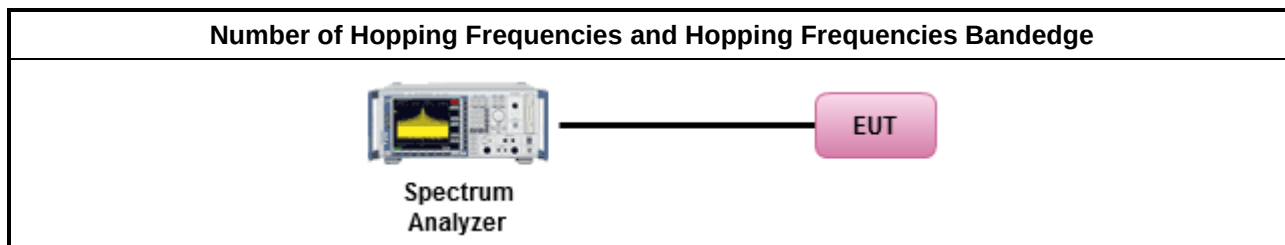
3.4.3 Measuring Instruments

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

3.4.4 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 7.8.3 for number of hopping frequencies measurement.
<ul style="list-style-type: none"> 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	

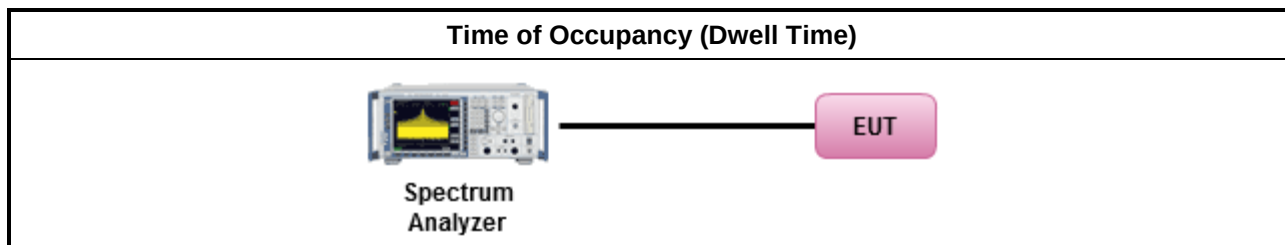
3.5.2 Measuring Instruments

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.	

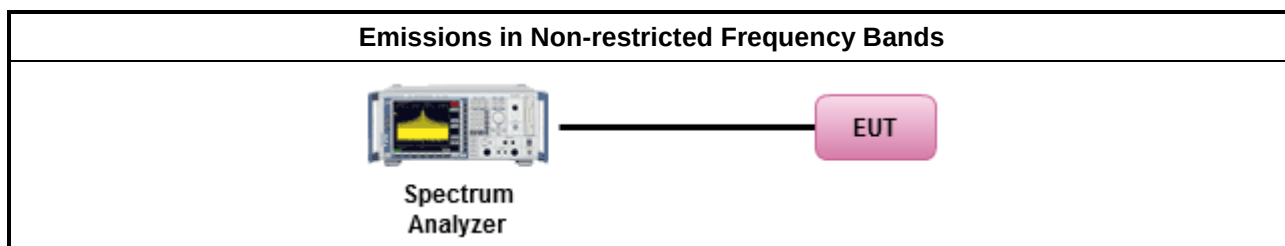
3.6.2 Measuring Instruments

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

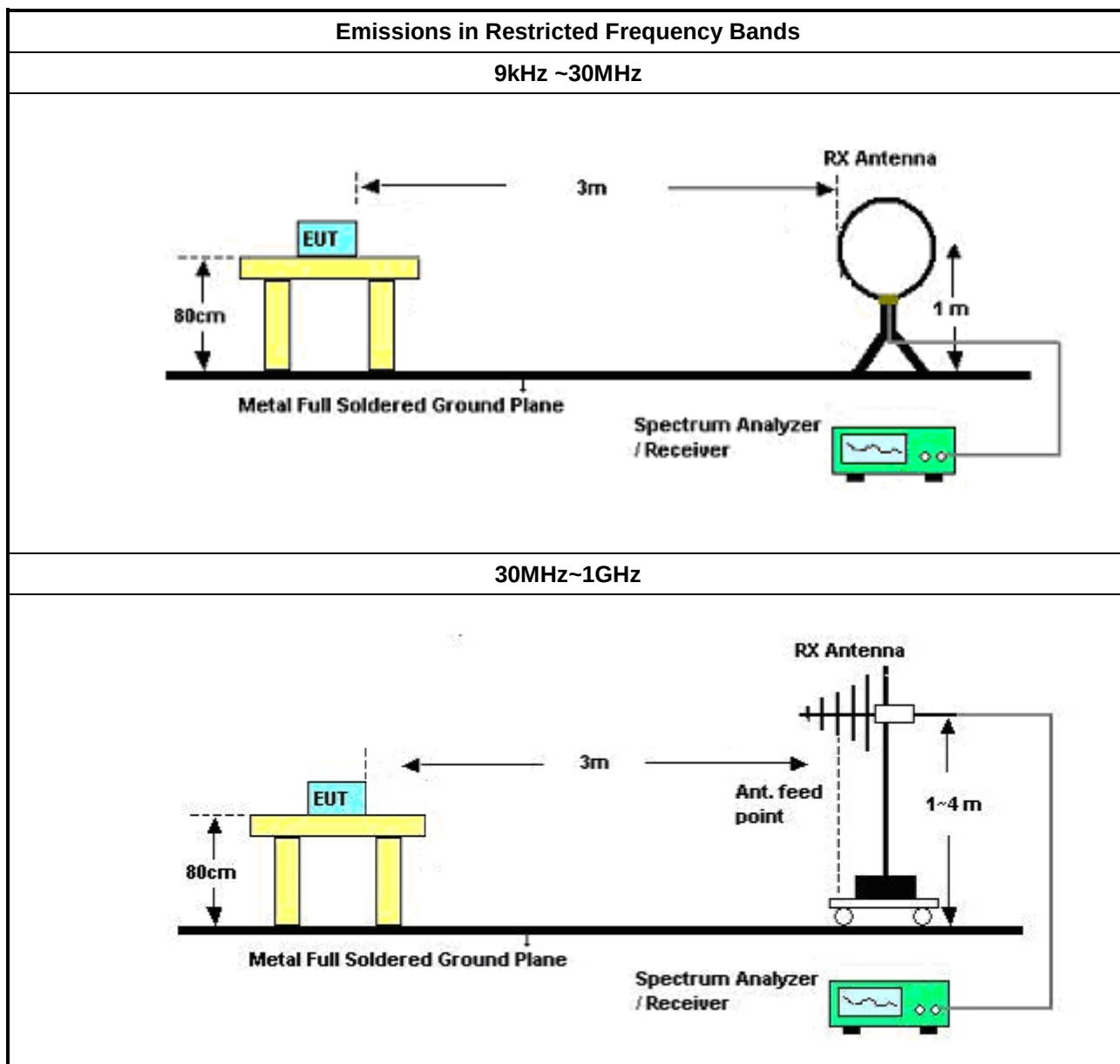
Test Method	
<ul style="list-style-type: none"> The average emission levels shall be measured in [hopping duty factor]. 	
<ul style="list-style-type: none"> Refer as ANSI C63.10; clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the 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.
<ul style="list-style-type: none"> KDB 414788 Open-Field Test Sites and Chamber Correlation Justification. 	
	<ul style="list-style-type: none"> Based on LP0002 5.5.2: measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	<ul style="list-style-type: none"> Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

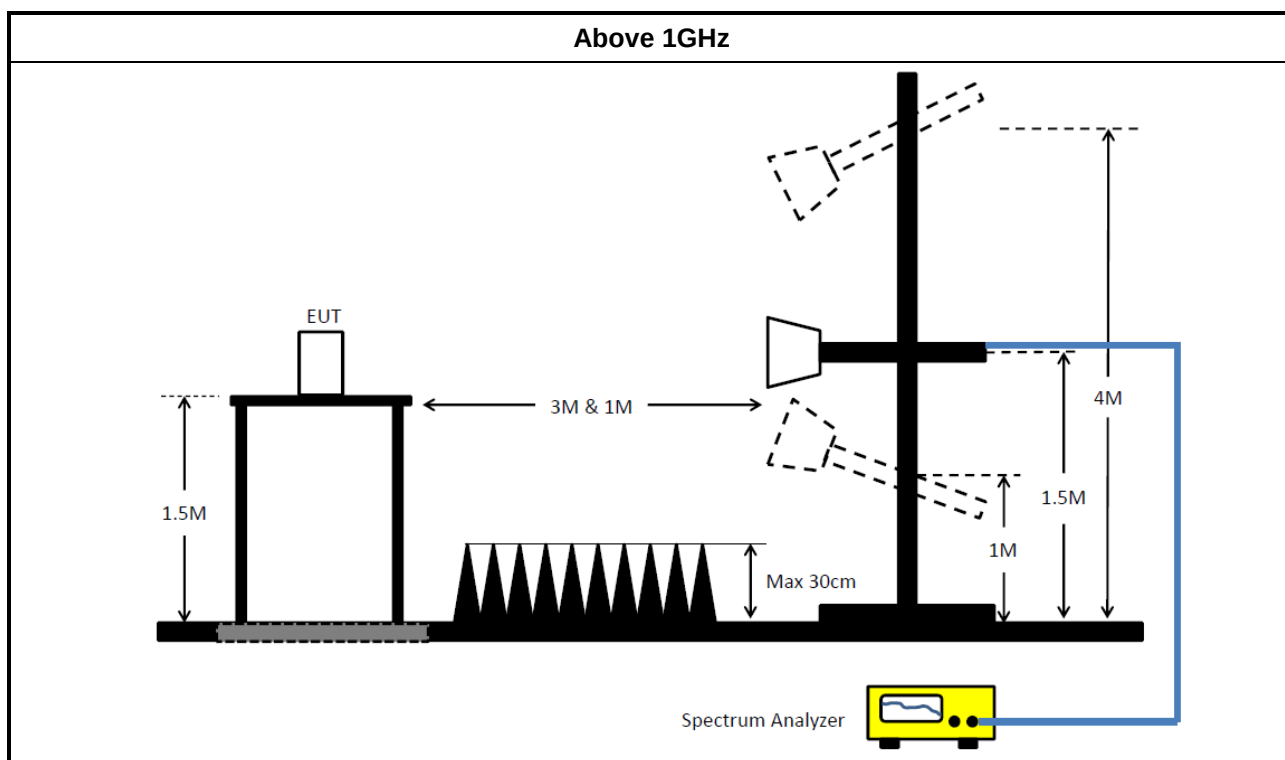
3.7.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.7.5 Test Setup





3.7.6 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.

3.7.7 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

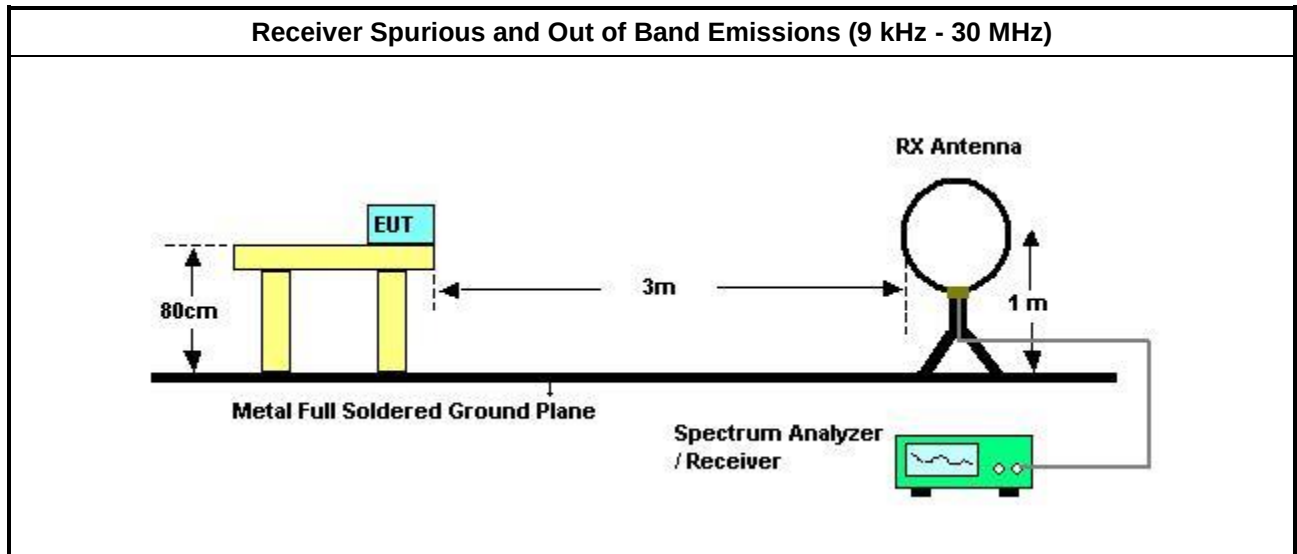
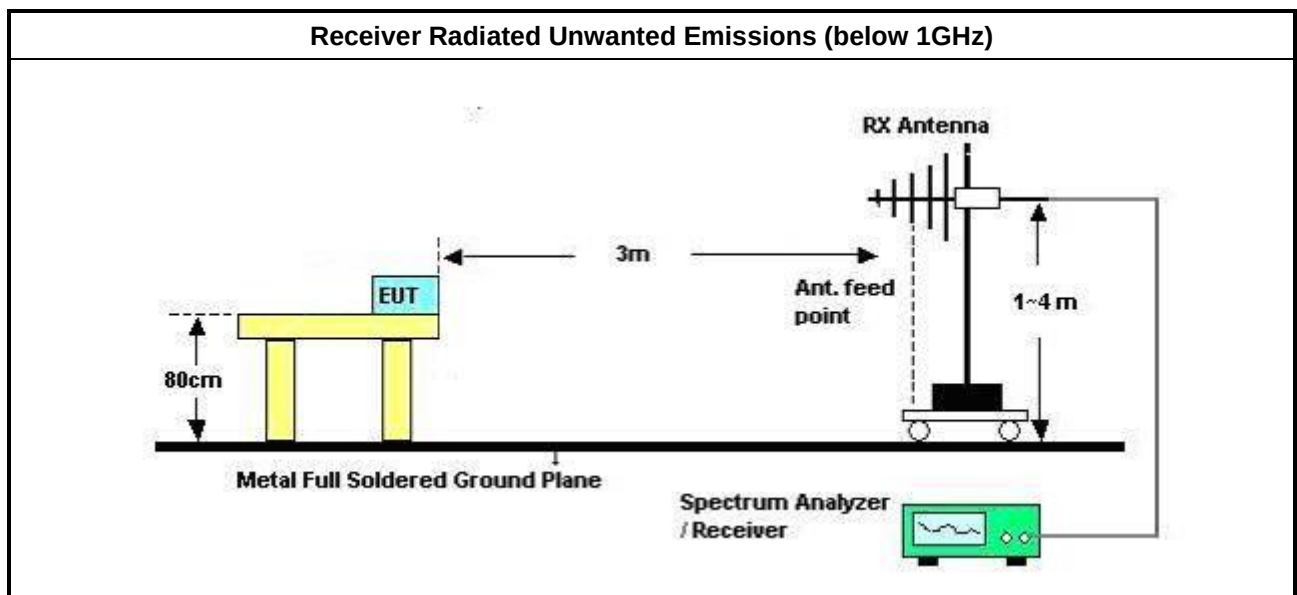
Test Method	
☒	The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is higher, to at least 3 times the highest tuneable or local oscillator frequency, whichever 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.

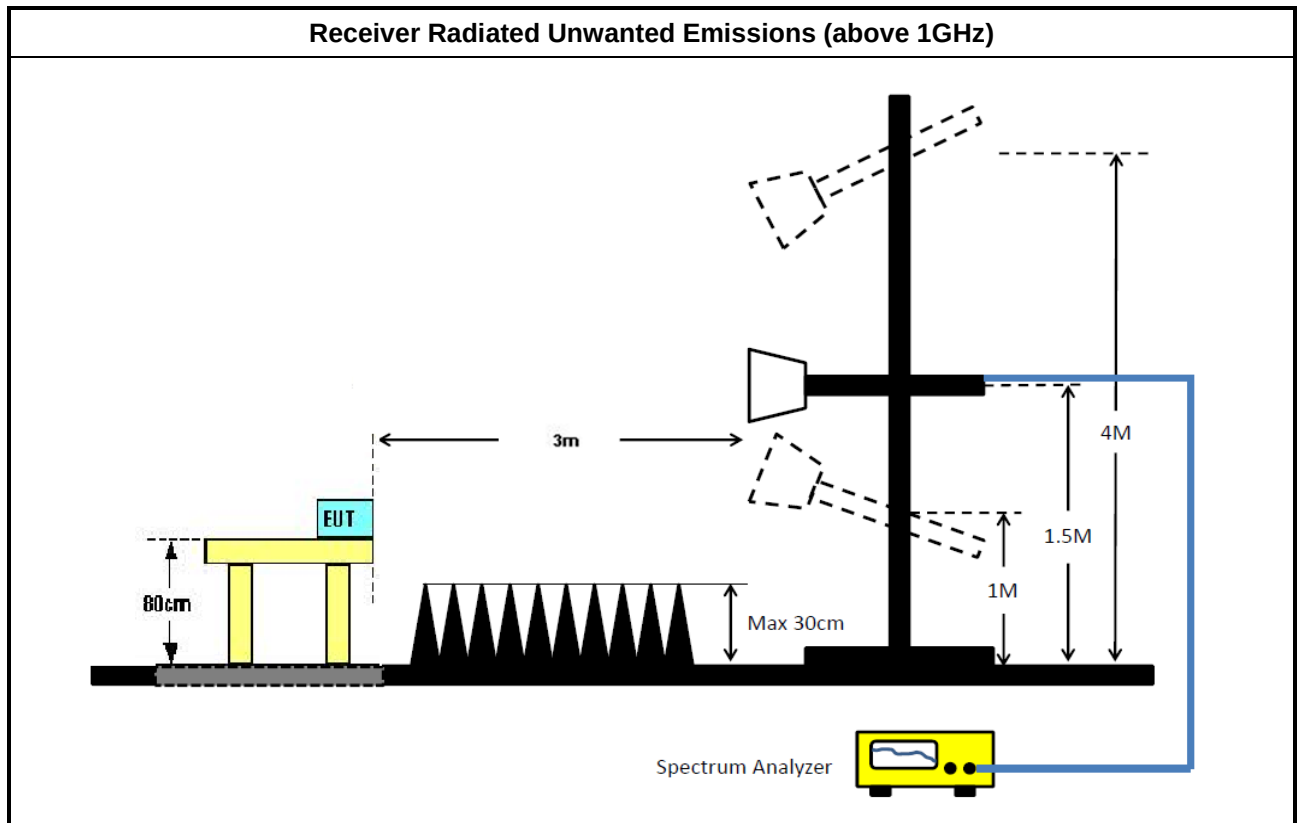
3.8.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.8.5 Test Setup





3.8.6 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.

3.8.7 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
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	29/May/2020	28/May/2021
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	05/Nov/2019	04/Nov/2020
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127477	9kHz ~ 30MHz	17/Feb/2020	16/Feb/2021
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	23/Sep/2019	22/Sep/2020
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	24/Sep/2019	23/Sep/2020
Impedance Stabilization Network	TESEQ	ISN T800	30330	9kHz ~ 30MHz	26/May/2020	25/May/2021
50Ω BNC Type Terminal	-	-	CON-01-01	-	15/Jun/2020	14/Jun/2021
50Ω BNC Type Terminal	-	-	CON-01-04	-	15/Jun/2020	14/Jun/2021
Software	Sporton	SENSE-EMI	V5.10.7.3	-	NCR	NCR
Software	Audix	E3	6.12 160809	-	NCR	NCR

NCR : Non-Calibration Require

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10KHz ~ 40GHz	01/Oct/2019	30/Sep/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	11/Nov/2020
Pulse Sensor	Anritsu	MA2411B	1027452	300MHz~40GHz	18/Mar/2020	17/Mar/2021
Power Meter	Anritsu	ML2495A	1124009	300MHz~40GHz	18/Mar/2020	17/Mar/2021

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	27/Mar/2020	26/Mar/2021
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	19/Mar/2020	18/Mar/2021
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	07/Aug/2019	06/Aug/2020
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	14/Apr/2020	13/Apr/2021
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	04/Sep/2019	03/Sep/2020
Microwave Preamplifier	KEYSIGHT	83017A	MY53270197	1GHz~26.5GHz	27/Nov/2019	26/Nov/2020
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&M TJ6102-05	35418 & 3	30MHz~1GHz	30/Sep/2019	29/Sep/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	28/May/2020	27/May/2021
RF Cable-low	Jye Bao	RG142	CB031+3245 30/4	30MHz~1GHz	12/Feb/2020	11/Feb/2021
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX1 04	324530/4+17 173/4	1GHz~40GHz	12/Feb/2020	11/Feb/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz~40GHz	13/Mar/2020	12/Mar/2021
Preamplifier	MITEQ	TTA1840-35- HG	1864481	18GHz~40GHz	10/Mar/2020	09/Mar/2021
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	16/Mar/2020	15/Mar/2021
EMI Test Receiver	R&S	ESR3	102051	9kHz~3.6GHz	29/May/2020	28/May/2021

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	453.242k	31.50	46.82	-15.32	Neutral
Mode 2	Pass	QP	188.327k	47.32	64.11	-16.79	Neutral
Mode 3	Pass	AV	455.055k	32.78	46.78	-14.00	Neutral
Mode 4	Pass	QP	191.358k	47.42	63.97	-16.55	Line

Mode Configure

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	203.98k	31.45	63.44	-31.99	Line	-
Mode 1	Pass	AV	203.98k	19.05	53.44	-34.39	Line	-
Mode 1	Pass	QP	453.242k	36.56	56.82	-20.26	Line	"Worst"
Mode 1	Pass	AV	453.242k	26.29	46.82	-20.53	Line	-
Mode 1	Pass	QP	841.502k	19.49	56.00	-36.51	Line	-
Mode 1	Pass	AV	841.502k	15.82	46.00	-30.18	Line	-
Mode 1	Pass	QP	1.158M	19.97	56.00	-36.03	Line	-
Mode 1	Pass	AV	1.158M	16.71	46.00	-29.29	Line	-
Mode 1	Pass	QP	1.977M	19.02	56.00	-36.98	Line	-
Mode 1	Pass	AV	1.977M	16.14	46.00	-29.86	Line	-
Mode 1	Pass	QP	3.775M	20.44	56.00	-35.56	Line	-
Mode 1	Pass	AV	3.775M	17.17	46.00	-28.83	Line	-
Mode 1	Pass	QP	182.408k	31.03	64.37	-33.34	Neutral	-
Mode 1	Pass	AV	182.408k	20.41	54.37	-33.96	Neutral	-
Mode 1	Pass	QP	453.242k	33.50	56.82	-23.32	Neutral	-
Mode 1	Pass	AV	453.242k	31.50	46.82	-15.32	Neutral	"Worst"
Mode 1	Pass	QP	956.168k	23.85	56.00	-32.15	Neutral	-
Mode 1	Pass	AV	956.168k	16.89	46.00	-29.11	Neutral	-
Mode 1	Pass	QP	1.205M	23.97	56.00	-32.03	Neutral	-
Mode 1	Pass	AV	1.205M	18.03	46.00	-27.97	Neutral	-
Mode 1	Pass	QP	2.615M	21.43	56.00	-34.57	Neutral	-
Mode 1	Pass	AV	2.615M	16.20	46.00	-29.80	Neutral	-
Mode 1	Pass	QP	3.821M	21.58	56.00	-34.42	Neutral	-
Mode 1	Pass	AV	3.821M	17.91	46.00	-28.09	Neutral	-
Mode 2	Pass	QP	203.98k	46.26	63.44	-17.18	Line	"Worst"
Mode 2	Pass	AV	203.98k	30.35	53.44	-23.09	Line	-
Mode 2	Pass	QP	256.1k	38.38	61.56	-23.18	Line	-
Mode 2	Pass	AV	256.1k	26.73	51.56	-24.83	Line	-
Mode 2	Pass	QP	510.906k	24.38	56.00	-31.62	Line	-
Mode 2	Pass	AV	510.906k	17.29	46.00	-28.71	Line	-
Mode 2	Pass	QP	2.855M	27.17	56.00	-28.83	Line	-
Mode 2	Pass	AV	2.855M	19.73	46.00	-26.27	Line	-
Mode 2	Pass	QP	7.442M	26.51	60.00	-33.49	Line	-
Mode 2	Pass	AV	7.442M	19.84	50.00	-30.16	Line	-
Mode 2	Pass	QP	14.208M	29.24	60.00	-30.76	Line	-
Mode 2	Pass	AV	14.208M	19.59	50.00	-30.41	Line	-
Mode 2	Pass	QP	188.327k	47.32	64.11	-16.79	Neutral	"Worst"
Mode 2	Pass	AV	188.327k	28.92	54.11	-25.19	Neutral	-
Mode 2	Pass	QP	265.468k	36.91	61.26	-24.35	Neutral	-
Mode 2	Pass	AV	265.468k	24.69	51.26	-26.57	Neutral	-
Mode 2	Pass	QP	578.211k	24.76	56.00	-31.24	Neutral	-
Mode 2	Pass	AV	578.211k	17.21	46.00	-28.79	Neutral	-
Mode 2	Pass	QP	4.341M	26.42	56.00	-29.58	Neutral	-
Mode 2	Pass	AV	4.341M	20.10	46.00	-25.90	Neutral	-
Mode 2	Pass	QP	7.065M	26.07	60.00	-33.93	Neutral	-
Mode 2	Pass	AV	7.065M	19.98	50.00	-30.02	Neutral	-
Mode 2	Pass	QP	14.845M	33.14	60.00	-26.86	Neutral	-
Mode 2	Pass	AV	14.845M	25.75	50.00	-24.25	Neutral	-
Mode 3	Pass	QP	157.361k	32.11	65.60	-33.49	Line	-
Mode 3	Pass	AV	157.361k	19.20	55.60	-36.40	Line	-

Remark:

Page No. : A2 of A11

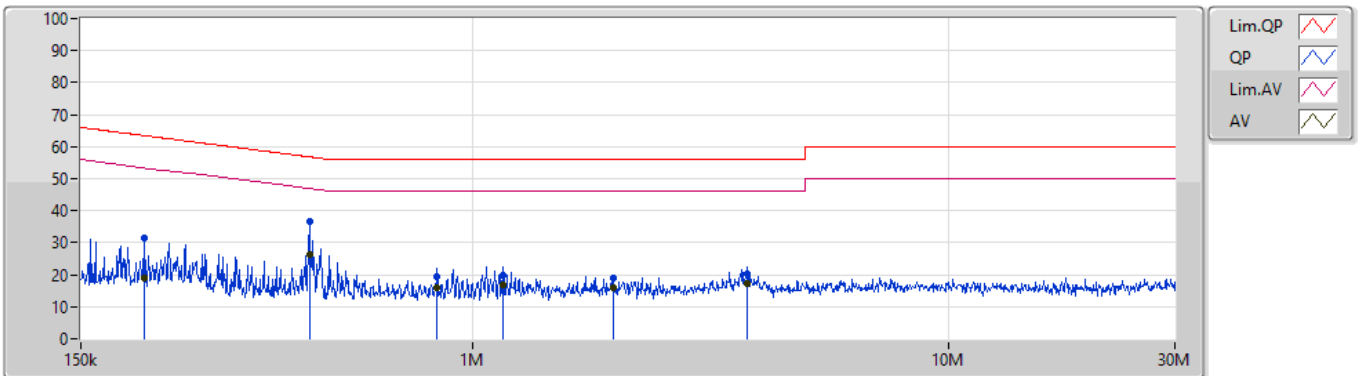
Level (dBuV/m) = Raw(Read Level) + LISN(LISN Factor) + CL(Cable Loss) - AT(Attenuator)

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Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 3	Pass	QP	455.055k	37.32	56.78	-19.46	Line	-
Mode 3	Pass	AV	455.055k	27.86	46.78	-18.92	Line	"Worst"
Mode 3	Pass	QP	956.168k	20.19	56.00	-35.81	Line	-
Mode 3	Pass	AV	956.168k	16.34	46.00	-29.66	Line	-
Mode 3	Pass	QP	2.001M	18.80	56.00	-37.20	Line	-
Mode 3	Pass	AV	2.001M	16.24	46.00	-29.76	Line	-
Mode 3	Pass	QP	3.362M	18.99	56.00	-37.01	Line	-
Mode 3	Pass	AV	3.362M	15.77	46.00	-30.23	Line	-
Mode 3	Pass	QP	4.683M	18.87	56.00	-37.13	Line	-
Mode 3	Pass	AV	4.683M	15.58	46.00	-30.42	Line	-
Mode 3	Pass	QP	203.98k	22.01	63.44	-41.43	Neutral	-
Mode 3	Pass	AV	203.98k	16.37	53.44	-37.07	Neutral	-
Mode 3	Pass	QP	455.055k	34.02	56.78	-22.76	Neutral	-
Mode 3	Pass	AV	455.055k	32.78	46.78	-14.00	Neutral	"Worst"
Mode 3	Pass	QP	933.537k	24.90	56.00	-31.10	Neutral	-
Mode 3	Pass	AV	933.537k	16.97	46.00	-29.03	Neutral	-
Mode 3	Pass	QP	1.364M	23.62	56.00	-32.38	Neutral	-
Mode 3	Pass	AV	1.364M	17.49	46.00	-28.51	Neutral	-
Mode 3	Pass	QP	1.818M	22.37	56.00	-33.63	Neutral	-
Mode 3	Pass	AV	1.818M	15.99	46.00	-30.01	Neutral	-
Mode 3	Pass	QP	4.702M	21.18	56.00	-34.82	Neutral	-
Mode 3	Pass	AV	4.702M	18.56	46.00	-27.44	Neutral	-
Mode 4	Pass	QP	191.358k	47.42	63.97	-16.55	Line	"Worst"
Mode 4	Pass	AV	191.358k	30.02	53.97	-23.95	Line	-
Mode 4	Pass	QP	261.263k	37.56	61.39	-23.83	Line	-
Mode 4	Pass	AV	261.263k	26.81	51.39	-24.58	Line	-
Mode 4	Pass	QP	442.514k	23.49	57.01	-33.52	Line	-
Mode 4	Pass	AV	442.514k	15.26	47.01	-31.75	Line	-
Mode 4	Pass	QP	2.414M	26.41	56.00	-29.59	Line	-
Mode 4	Pass	AV	2.414M	20.01	46.00	-25.99	Line	-
Mode 4	Pass	QP	7.776M	25.03	60.00	-34.97	Line	-
Mode 4	Pass	AV	7.776M	19.71	50.00	-30.29	Line	-
Mode 4	Pass	QP	14.436M	29.73	60.00	-30.27	Line	-
Mode 4	Pass	AV	14.436M	20.00	50.00	-30.00	Line	-
Mode 4	Pass	QP	189.837k	46.97	64.05	-17.08	Neutral	"Worst"
Mode 4	Pass	AV	189.837k	29.14	54.05	-24.91	Neutral	-
Mode 4	Pass	QP	383.278k	26.93	58.20	-31.27	Neutral	-
Mode 4	Pass	AV	383.278k	16.24	48.20	-31.96	Neutral	-
Mode 4	Pass	QP	606.584k	21.02	56.00	-34.98	Neutral	-
Mode 4	Pass	AV	606.584k	15.42	46.00	-30.58	Neutral	-
Mode 4	Pass	QP	2.247M	27.12	56.00	-28.88	Neutral	-
Mode 4	Pass	AV	2.247M	20.52	46.00	-25.48	Neutral	-
Mode 4	Pass	QP	4.482M	25.85	56.00	-30.15	Neutral	-
Mode 4	Pass	AV	4.482M	19.42	46.00	-26.58	Neutral	-
Mode 4	Pass	QP	14.322M	32.28	60.00	-27.72	Neutral	-
Mode 4	Pass	AV	14.322M	24.89	50.00	-25.11	Neutral	-

Conducted Emissions at Powerline_Mode 1

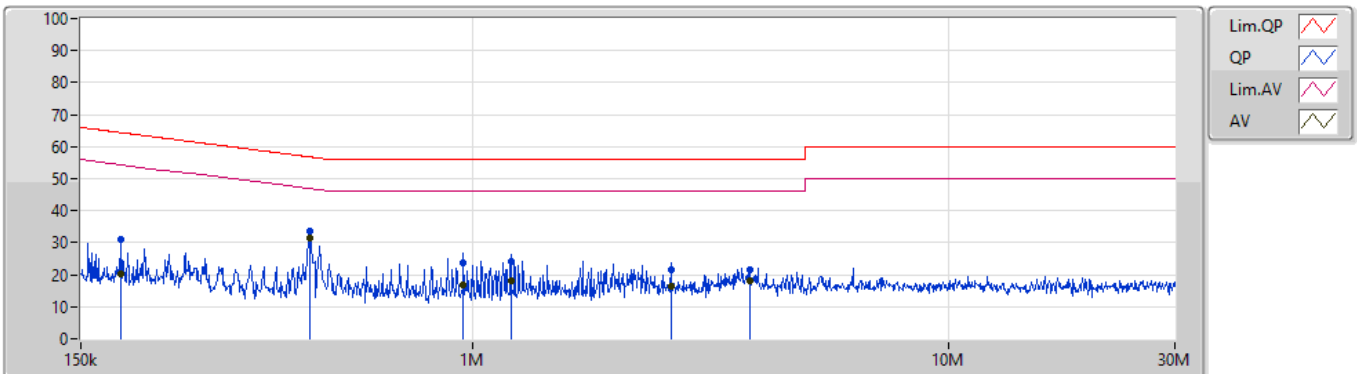
11/07/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	203.98k	31.45	63.44	-31.99	19.63	Line	-	11.82	9.65	0.11	9.87			
AV	203.98k	19.05	53.44	-34.39	19.63	Line	-	-0.58	9.65	0.11	9.87			
QP	453.242k	36.56	56.82	-20.26	19.64	Line	"Worst"	16.92	9.64	0.13	9.87			
AV	453.242k	26.29	46.82	-20.53	19.64	Line	-	6.65	9.64	0.13	9.87			
QP	841.502k	19.49	56.00	-36.51	19.62	Line	-	-0.13	9.64	0.11	9.87			
AV	841.502k	15.82	46.00	-30.18	19.62	Line	-	-3.80	9.64	0.11	9.87			
QP	1.158M	19.97	56.00	-36.03	19.64	Line	-	0.33	9.64	0.12	9.88			
AV	1.158M	16.71	46.00	-29.29	19.64	Line	-	-2.93	9.64	0.12	9.88			
QP	1.977M	19.02	56.00	-36.98	19.67	Line	-	-0.65	9.65	0.15	9.87			
AV	1.977M	16.14	46.00	-29.86	19.67	Line	-	-3.53	9.65	0.15	9.87			
QP	3.775M	20.44	56.00	-35.56	19.72	Line	-	0.72	9.66	0.18	9.88			
AV	3.775M	17.17	46.00	-28.83	19.72	Line	-	-2.55	9.66	0.18	9.88			

Conducted Emissions at Powerline_Mode 1

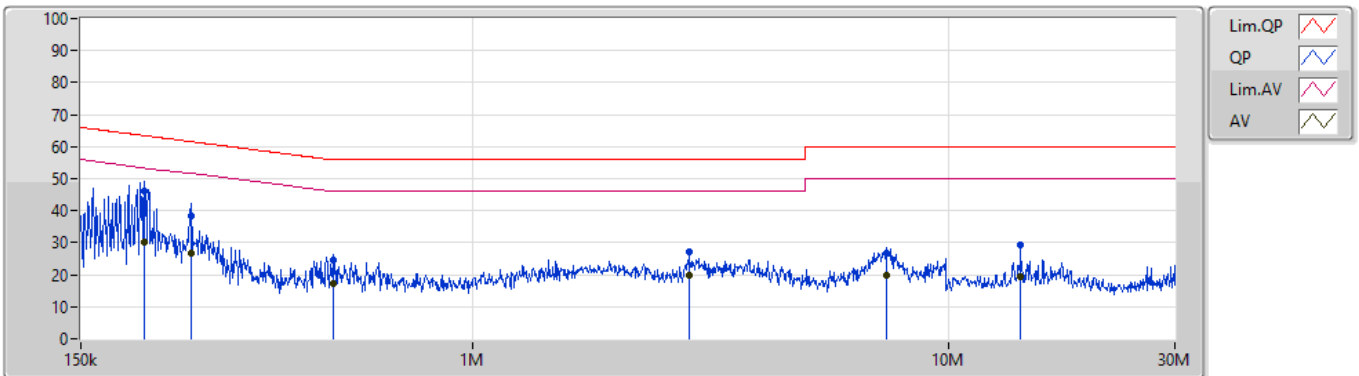
11/07/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	182.408k	31.03	64.37	-33.34	19.62	Neutral	-	11.41	9.64	0.11	9.87			
AV	182.408k	20.41	54.37	-33.96	19.62	Neutral	-	0.79	9.64	0.11	9.87			
QP	453.242k	33.50	56.82	-23.32	19.63	Neutral	-	13.87	9.63	0.13	9.87			
AV	453.242k	31.50	46.82	-15.32	19.63	Neutral	"Worst"	11.87	9.63	0.13	9.87			
QP	956.168k	23.85	56.00	-32.15	19.62	Neutral	-	4.23	9.63	0.11	9.88			
AV	956.168k	16.89	46.00	-29.11	19.62	Neutral	-	-2.73	9.63	0.11	9.88			
QP	1.205M	23.97	56.00	-32.03	19.64	Neutral	-	4.33	9.64	0.12	9.88			
AV	1.205M	18.03	46.00	-27.97	19.64	Neutral	-	-1.61	9.64	0.12	9.88			
QP	2.615M	21.43	56.00	-34.57	19.68	Neutral	-	1.75	9.65	0.16	9.87			
AV	2.615M	16.20	46.00	-29.80	19.68	Neutral	-	-3.48	9.65	0.16	9.87			
QP	3.821M	21.58	56.00	-34.42	19.72	Neutral	-	1.86	9.66	0.18	9.88			
AV	3.821M	17.91	46.00	-28.09	19.72	Neutral	-	-1.81	9.66	0.18	9.88			

Conducted Emissions at Powerline_Mode 2

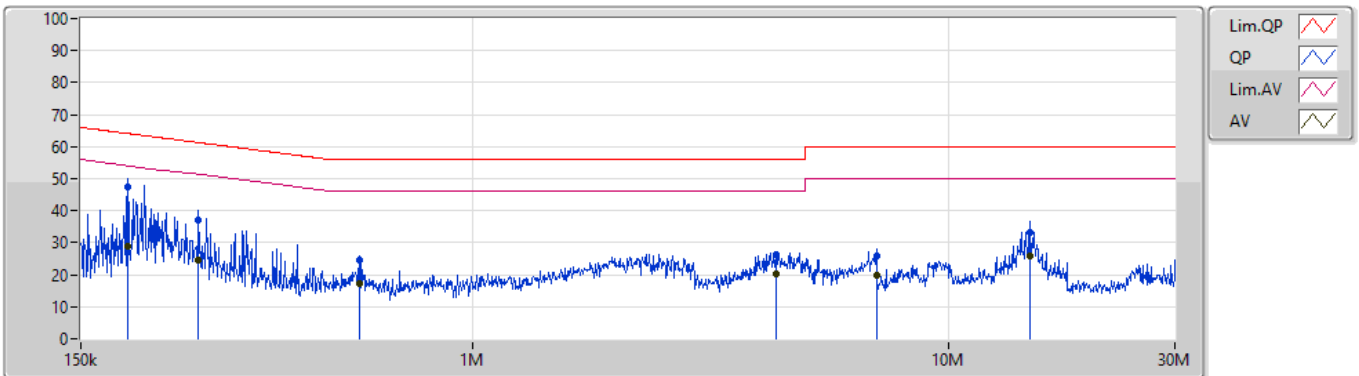
11/07/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	203.98k	46.26	63.44	-17.18	19.63	Line	"Worst"	26.63	9.65	0.11	9.87			
AV	203.98k	30.35	53.44	-23.09	19.63	Line	-	10.72	9.65	0.11	9.87			
QP	256.1k	38.38	61.56	-23.18	19.64	Line	-	18.74	9.65	0.12	9.87			
AV	256.1k	26.73	51.56	-24.83	19.64	Line	-	7.09	9.65	0.12	9.87			
QP	510.906k	24.38	56.00	-31.62	19.64	Line	-	4.74	9.64	0.13	9.87			
AV	510.906k	17.29	46.00	-28.71	19.64	Line	-	-2.35	9.64	0.13	9.87			
QP	2.855M	27.17	56.00	-28.83	19.71	Line	-	7.46	9.66	0.17	9.88			
AV	2.855M	19.73	46.00	-26.27	19.71	Line	-	0.02	9.66	0.17	9.88			
QP	7.442M	26.51	60.00	-33.49	19.80	Line	-	6.71	9.68	0.24	9.88			
AV	7.442M	19.84	50.00	-30.16	19.80	Line	-	0.04	9.68	0.24	9.88			
QP	14.208M	29.24	60.00	-30.76	19.84	Line	-	9.40	9.66	0.30	9.88			
AV	14.208M	19.59	50.00	-30.41	19.84	Line	-	-0.25	9.66	0.30	9.88			

Conducted Emissions at Powerline_Mode 2

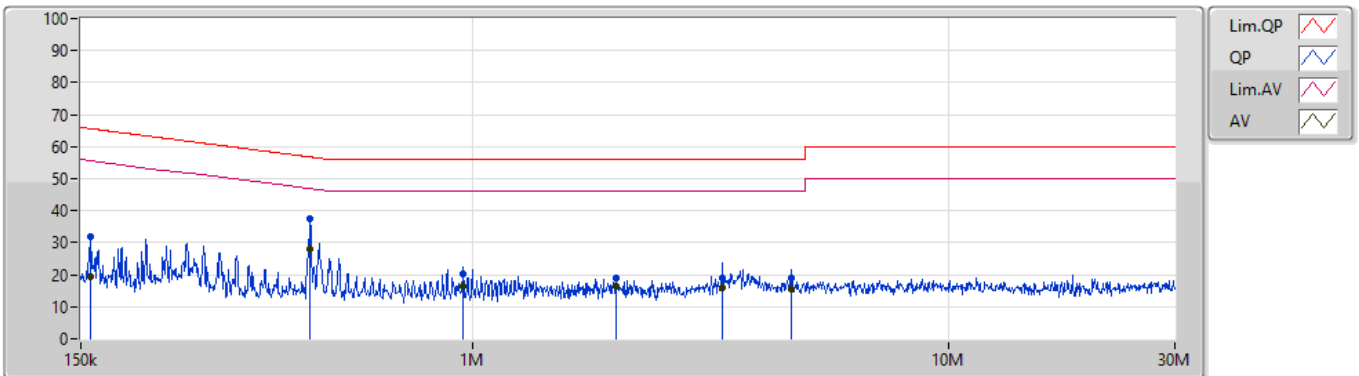
11/07/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	188.327k	47.32	64.11	-16.79	19.62	Neutral	"Worst"	27.70	9.64	0.11	9.87			
AV	188.327k	28.92	54.11	-25.19	19.62	Neutral	-	9.30	9.64	0.11	9.87			
QP	265.468k	36.91	61.26	-24.35	19.63	Neutral	-	17.28	9.64	0.12	9.87			
AV	265.468k	24.69	51.26	-26.57	19.63	Neutral	-	5.06	9.64	0.12	9.87			
QP	578.211k	24.76	56.00	-31.24	19.63	Neutral	-	5.13	9.63	0.13	9.87			
AV	578.211k	17.21	46.00	-28.79	19.63	Neutral	-	-2.42	9.63	0.13	9.87			
QP	4.341M	26.42	56.00	-29.58	19.73	Neutral	-	6.69	9.66	0.19	9.88			
AV	4.341M	20.10	46.00	-25.90	19.73	Neutral	-	0.37	9.66	0.19	9.88			
QP	7.065M	26.07	60.00	-33.93	19.79	Neutral	-	6.28	9.68	0.23	9.88			
AV	7.065M	19.98	50.00	-30.02	19.79	Neutral	-	0.19	9.68	0.23	9.88			
QP	14.845M	33.14	60.00	-26.86	19.90	Neutral	-	13.24	9.71	0.31	9.88			
AV	14.845M	25.75	50.00	-24.25	19.90	Neutral	-	5.85	9.71	0.31	9.88			

Conducted Emissions at Powerline_Mode 3

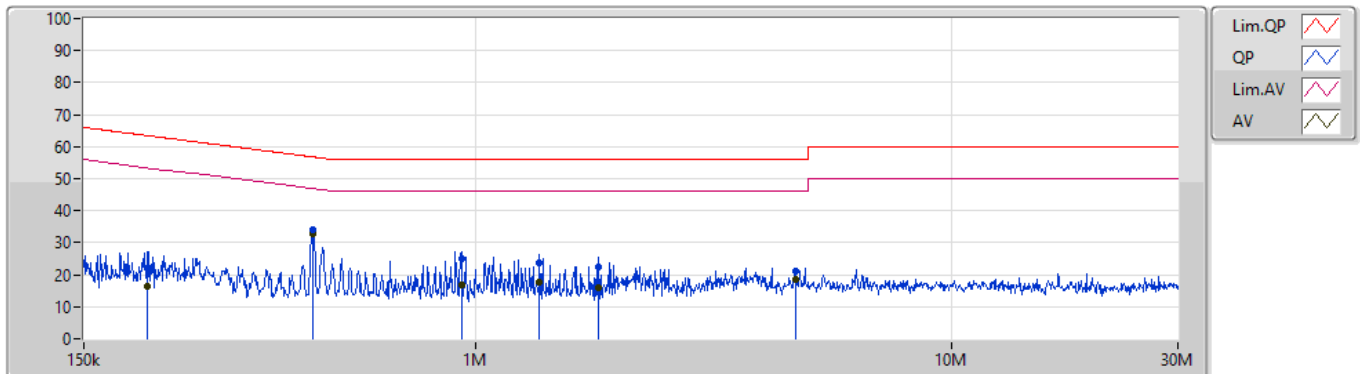
11/07/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	157.361k	32.11	65.60	-33.49	19.64	Line	-	12.47	9.66	0.11	9.87			
AV	157.361k	19.20	55.60	-36.40	19.64	Line	-	-0.44	9.66	0.11	9.87			
QP	455.055k	37.32	56.78	-19.46	19.64	Line	-	17.68	9.64	0.13	9.87			
AV	455.055k	27.86	46.78	-18.92	19.64	Line	"Worst"	8.22	9.64	0.13	9.87			
QP	956.168k	20.19	56.00	-35.81	19.63	Line	-	0.56	9.64	0.11	9.88			
AV	956.168k	16.34	46.00	-29.66	19.63	Line	-	-3.29	9.64	0.11	9.88			
QP	2.001M	18.80	56.00	-37.20	19.67	Line	-	-0.87	9.65	0.15	9.87			
AV	2.001M	16.24	46.00	-29.76	19.67	Line	-	-3.43	9.65	0.15	9.87			
QP	3.362M	18.99	56.00	-37.01	19.72	Line	-	-0.73	9.66	0.18	9.88			
AV	3.362M	15.77	46.00	-30.23	19.72	Line	-	-3.95	9.66	0.18	9.88			
QP	4.683M	18.87	56.00	-37.13	19.75	Line	-	-0.88	9.67	0.20	9.88			
AV	4.683M	15.58	46.00	-30.42	19.75	Line	-	-4.17	9.67	0.20	9.88			

Conducted Emissions at Powerline_Mode 3

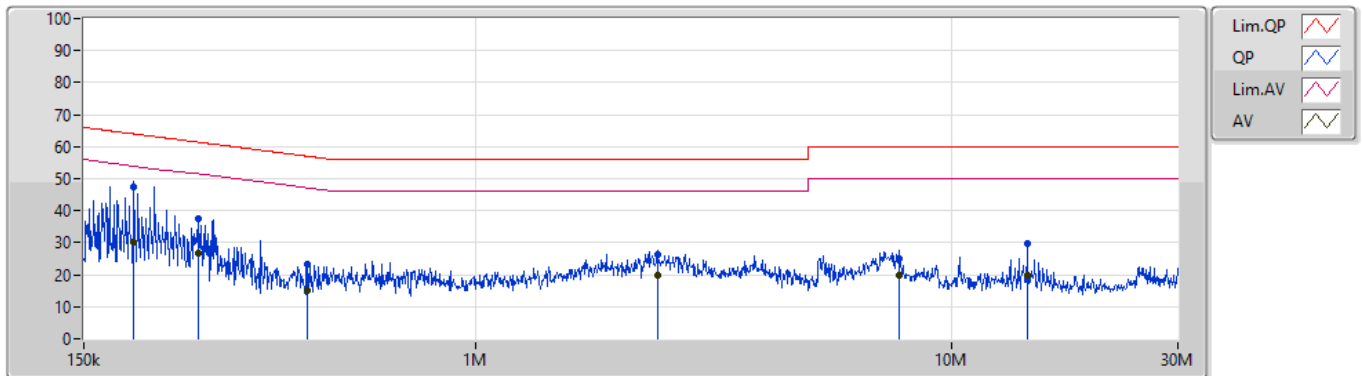
11/07/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	203.98k	22.01	63.44	-41.43	19.62	Neutral	-	2.39	9.64	0.11	9.87			
AV	203.98k	16.37	53.44	-37.07	19.62	Neutral	-	-3.25	9.64	0.11	9.87			
QP	455.055k	34.02	56.78	-22.76	19.63	Neutral	-	14.39	9.63	0.13	9.87			
AV	455.055k	32.78	46.78	-14.00	19.63	Neutral	"Worst"	13.15	9.63	0.13	9.87			
QP	933.537k	24.90	56.00	-31.10	19.62	Neutral	-	5.28	9.63	0.11	9.88			
AV	933.537k	16.97	46.00	-29.03	19.62	Neutral	-	-2.65	9.63	0.11	9.88			
QP	1.364M	23.62	56.00	-32.38	19.65	Neutral	-	3.97	9.64	0.13	9.88			
AV	1.364M	17.49	46.00	-28.51	19.65	Neutral	-	-2.16	9.64	0.13	9.88			
QP	1.818M	22.37	56.00	-33.63	19.66	Neutral	-	2.71	9.65	0.14	9.87			
AV	1.818M	15.99	46.00	-30.01	19.66	Neutral	-	-3.67	9.65	0.14	9.87			
QP	4.702M	21.18	56.00	-34.82	19.75	Neutral	-	1.43	9.67	0.20	9.88			
AV	4.702M	18.56	46.00	-27.44	19.75	Neutral	-	-1.19	9.67	0.20	9.88			

Conducted Emissions at Powerline_Mode 4

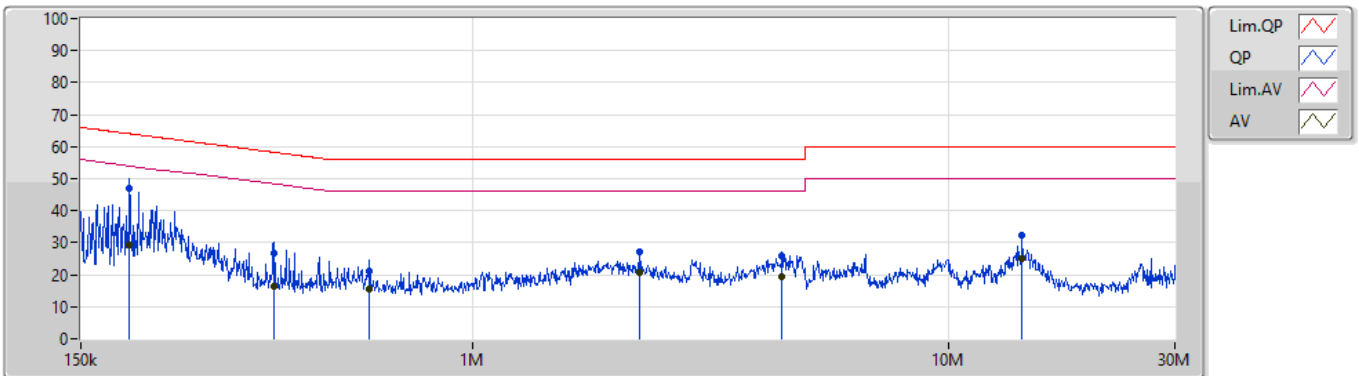
11/07/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	191.358k	47.42	63.97	-16.55	19.63	Line	"Worst"	27.79	9.65	0.11	9.87			
AV	191.358k	30.02	53.97	-23.95	19.63	Line	-	10.39	9.65	0.11	9.87			
QP	261.263k	37.56	61.39	-23.83	19.64	Line	-	17.92	9.65	0.12	9.87			
AV	261.263k	26.81	51.39	-24.58	19.64	Line	-	7.17	9.65	0.12	9.87			
QP	442.514k	23.49	57.01	-33.52	19.64	Line	-	3.85	9.64	0.13	9.87			
AV	442.514k	15.26	47.01	-31.75	19.64	Line	-	-4.38	9.64	0.13	9.87			
QP	2.414M	26.41	56.00	-29.59	19.68	Line	-	6.73	9.65	0.16	9.87			
AV	2.414M	20.01	46.00	-25.99	19.68	Line	-	0.33	9.65	0.16	9.87			
QP	7.776M	25.03	60.00	-34.97	19.80	Line	-	5.23	9.68	0.24	9.88			
AV	7.776M	19.71	50.00	-30.29	19.80	Line	-	-0.09	9.68	0.24	9.88			
QP	14.436M	29.73	60.00	-30.27	19.85	Line	-	9.88	9.66	0.31	9.88			
AV	14.436M	20.00	50.00	-30.00	19.85	Line	-	0.15	9.66	0.31	9.88			

Conducted Emissions at Powerline_Mode 4

11/07/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	189.837k	46.97	64.05	-17.08	19.62	Neutral	"Worst"	27.35	9.64	0.11	9.87			
AV	189.837k	29.14	54.05	-24.91	19.62	Neutral	-	9.52	9.64	0.11	9.87			
QP	383.278k	26.93	58.20	-31.27	19.63	Neutral	-	7.30	9.63	0.13	9.87			
AV	383.278k	16.24	48.20	-31.96	19.63	Neutral	-	-3.39	9.63	0.13	9.87			
QP	606.584k	21.02	56.00	-34.98	19.62	Neutral	-	1.40	9.63	0.12	9.87			
AV	606.584k	15.42	46.00	-30.58	19.62	Neutral	-	-4.20	9.63	0.12	9.87			
QP	2.247M	27.12	56.00	-28.88	19.68	Neutral	-	7.44	9.65	0.16	9.87			
AV	2.247M	20.52	46.00	-25.48	19.68	Neutral	-	0.84	9.65	0.16	9.87			
QP	4.482M	25.85	56.00	-30.15	19.73	Neutral	-	6.12	9.66	0.19	9.88			
AV	4.482M	19.42	46.00	-26.58	19.73	Neutral	-	-0.31	9.66	0.19	9.88			
QP	14.322M	32.28	60.00	-27.72	19.90	Neutral	-	12.38	9.71	0.31	9.88			
AV	14.322M	24.89	50.00	-25.11	19.90	Neutral	-	4.99	9.71	0.31	9.88			

**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)	935k	882.559k	883KF1D	932.5k	871.564k
BT-EDR(2Mbps)	1.233M	1.18M	1M18G1D	1.226M	1.174M
BT-EDR(3Mbps)	1.245M	1.192M	1M19G1D	1.24M	1.186M

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;

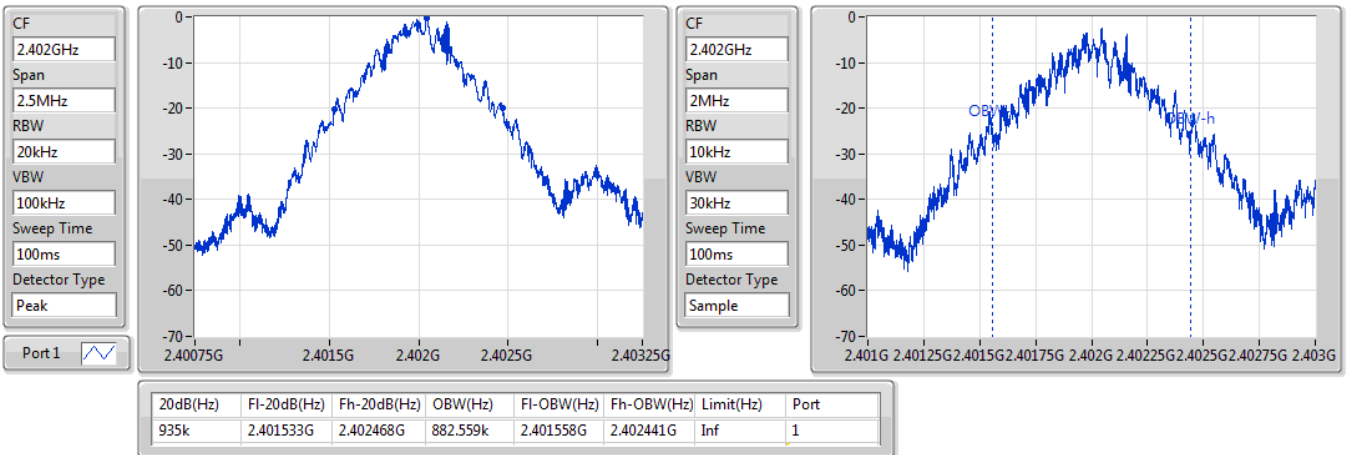
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	935k	882.559k
2440MHz	Pass	Inf	932.5k	871.564k
2480MHz	Pass	Inf	935k	872.564k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.226M	1.174M
2440MHz	Pass	Inf	1.233M	1.18M
2480MHz	Pass	Inf	1.231M	1.176M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.245M	1.186M
2440MHz	Pass	Inf	1.243M	1.192M
2480MHz	Pass	Inf	1.24M	1.189M

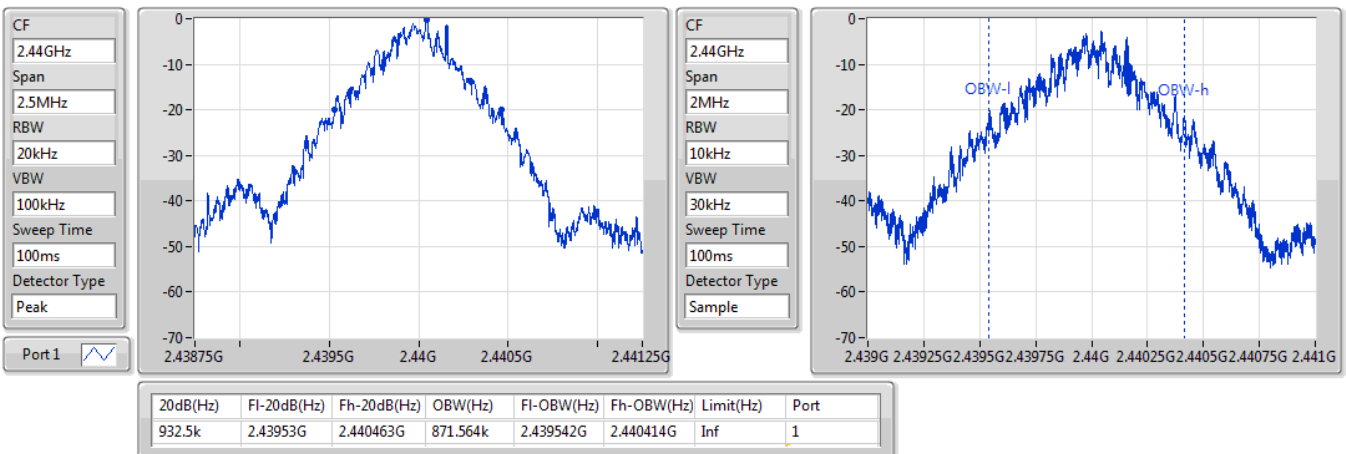
Port X-N dB = Port X 20dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

BT-BR(1Mbps)
2402MHz
EBW-FS

16/07/2020

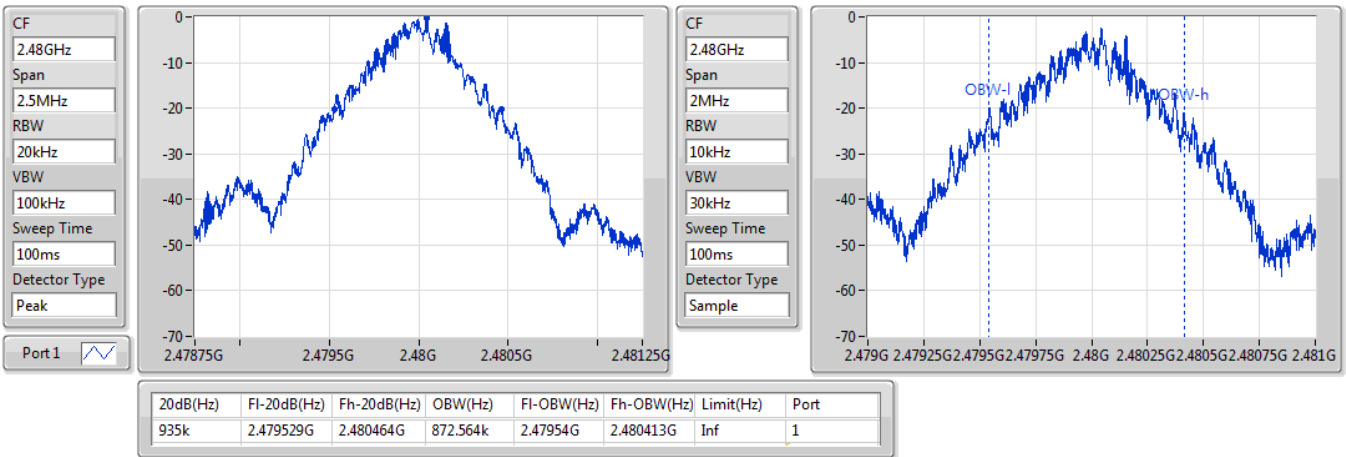

BT-BR(1Mbps)
2440MHz
EBW-FS

16/07/2020

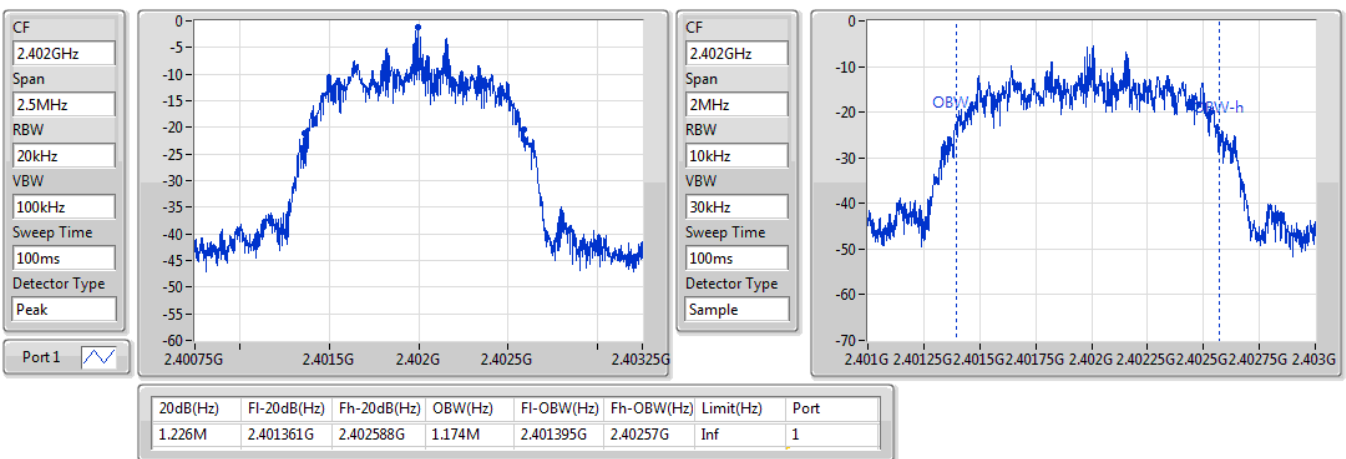


BT-BR(1Mbps)
EBW-FS
2480MHz

16/07/2020

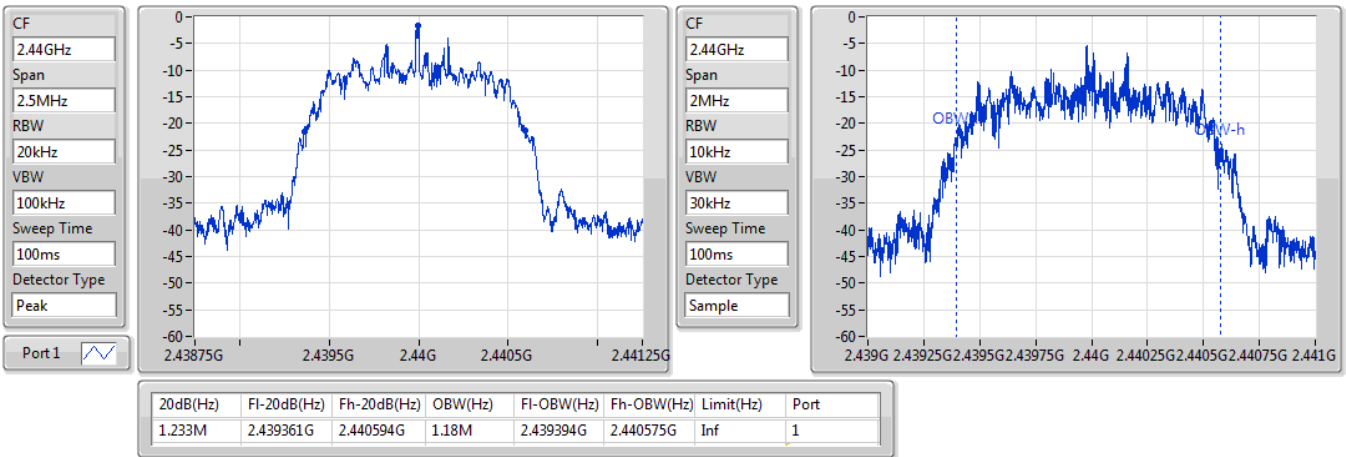

BT-EDR(2Mbps)
EBW-FS
2402MHz

16/07/2020

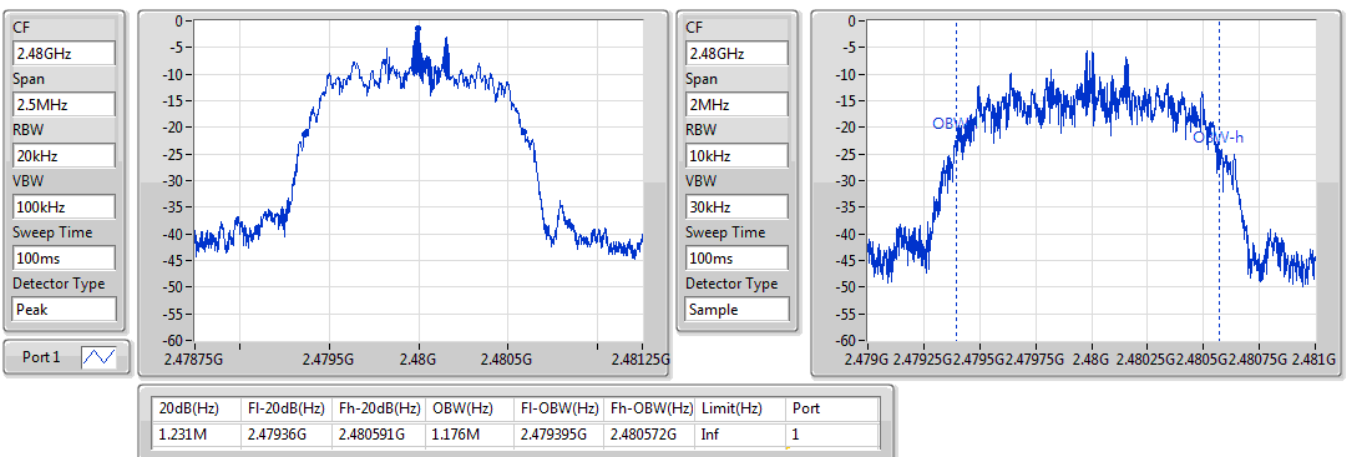


BT-EDR(2Mbps)
EBW-FS
2440MHz

16/07/2020

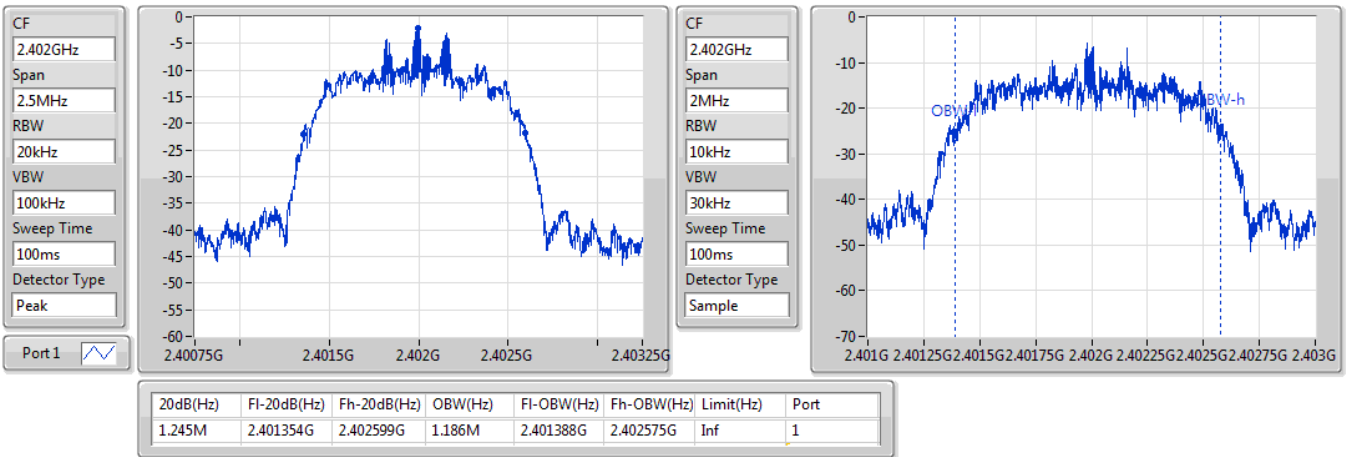

BT-EDR(2Mbps)
EBW-FS
2480MHz

16/07/2020

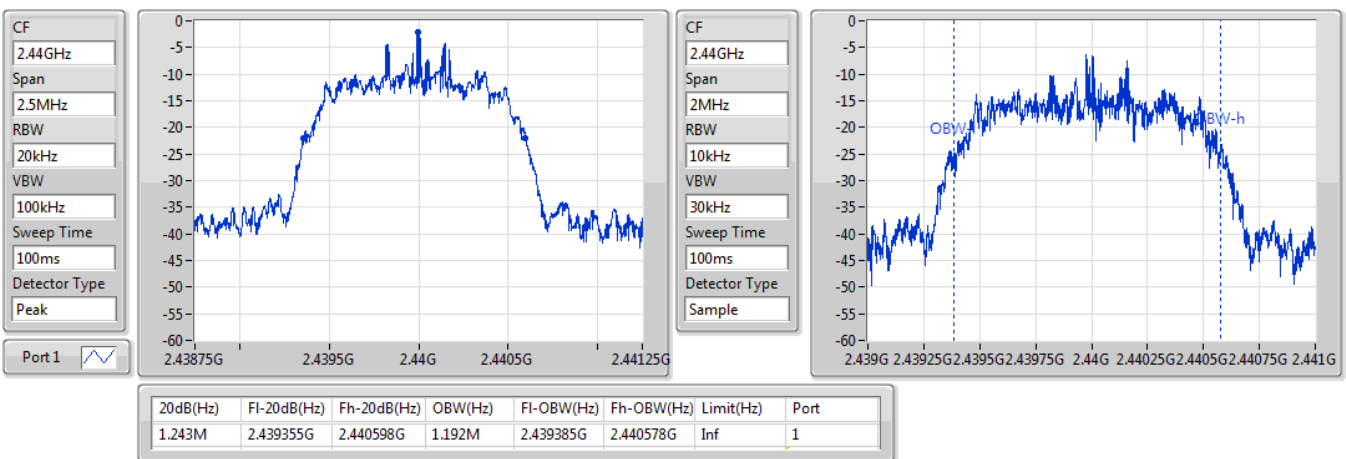


BT-EDR(3Mbps)
EBW-FS
2402MHz

16/07/2020

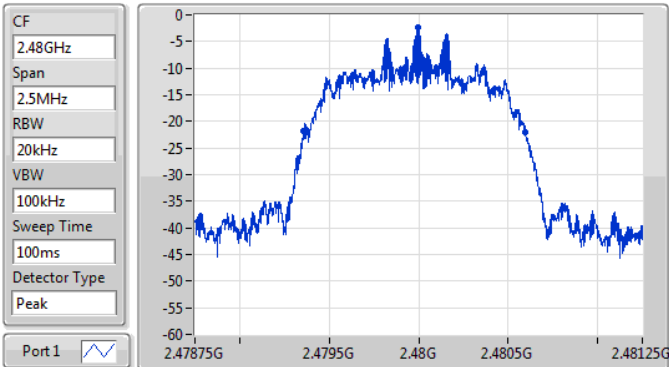

BT-EDR(3Mbps)
EBW-FS
2440MHz

16/07/2020



BT-EDR(3Mbps)

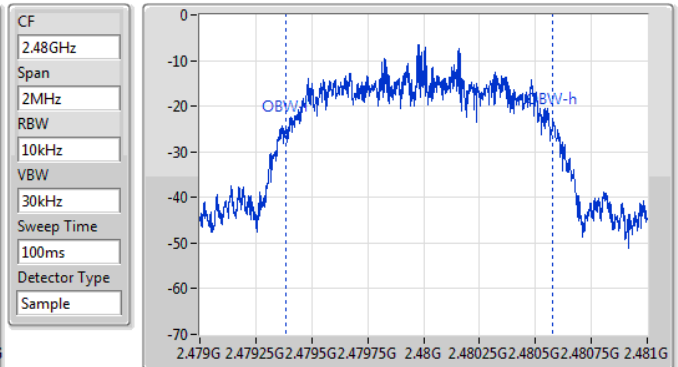
2480MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.24M	2.479358G	2.480598G	1.189M	2.479386G	2.480576G	Inf	1

EBW-FS

16/07/2020





Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.0005M	997.5k
BT-EDR(2Mbps)	1.005M	999k
BT-EDR(3Mbps)	1.002M	999k

Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.401995G	2.402995G	1.0005M	606.8925k
2440MHz	Pass	2.439995G	2.440992G	997.5k	624.375k
2480MHz	Pass	2.478992G	2.479991G	999k	623.5425k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.401993G	2.402994G	1.0005M	821.178k
2440MHz	Pass	2.43999G	2.440995G	1.005M	829.17k
2480MHz	Pass	2.478993G	2.479992G	999k	841.824k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.401995G	2.402994G	999k	835.164k
2440MHz	Pass	2.43999G	2.440992G	1.002M	835.83k
2480MHz	Pass	2.478992G	2.479994G	1.002M	835.164k

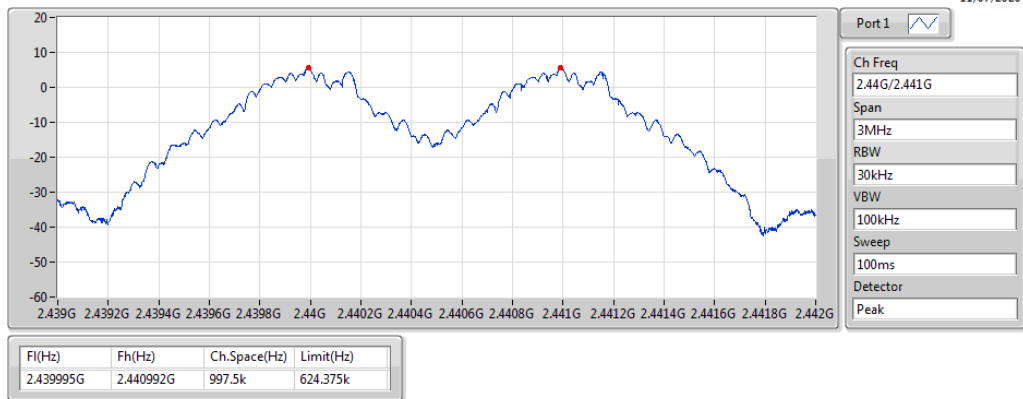
BT-BR(1Mbps)

2.402G/2.403GHz



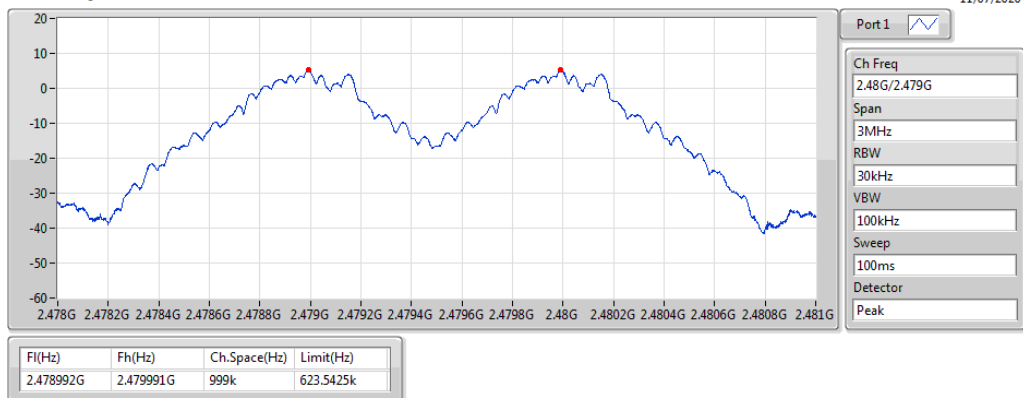
BT-BR(1Mbps)

2.44G/2.441GHz



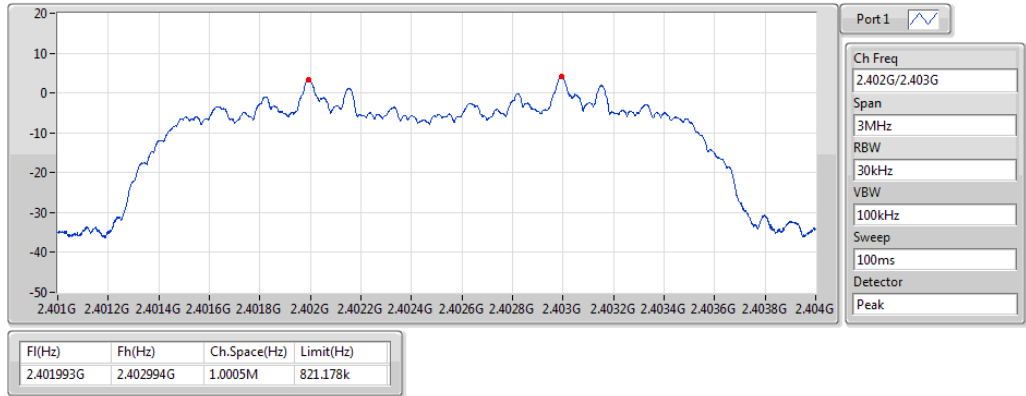
BT-BR(1Mbps)

2.48G/2.479GHz



BT-EDR(2Mbps)

2.402G/2.403GHz



BT-EDR(2Mbps)

2.44G/2.441GHz



BT-EDR(2Mbps)

2.48G/2.479GHz

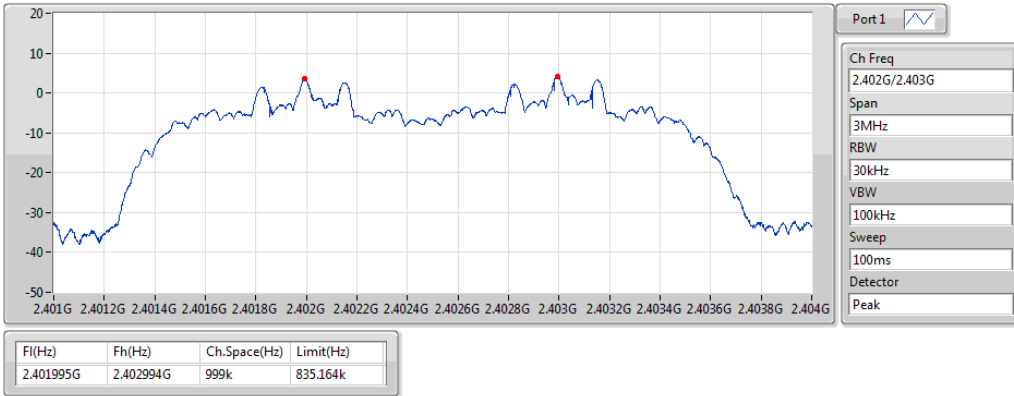


BT-EDR(3Mbps)

2.402G/2.403GHz

Channel Separation-FS

11/07/2020

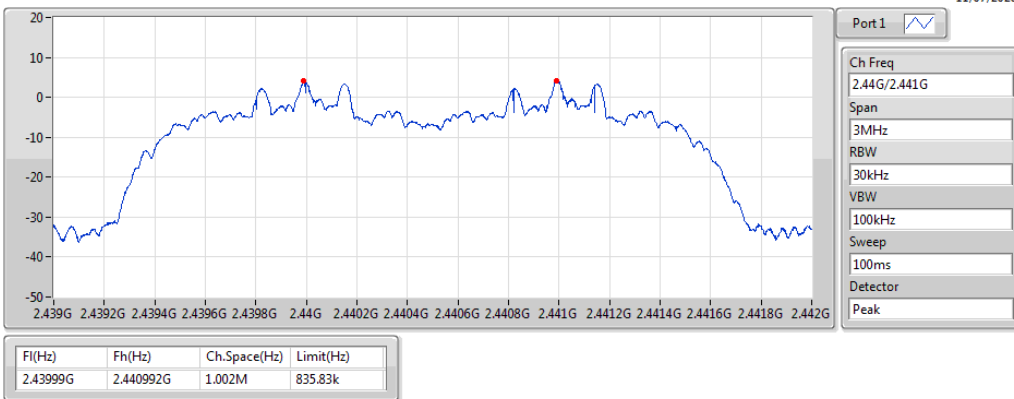


BT-EDR(3Mbps)

2.44G/2.441GHz

Channel Separation-FS

11/07/2020

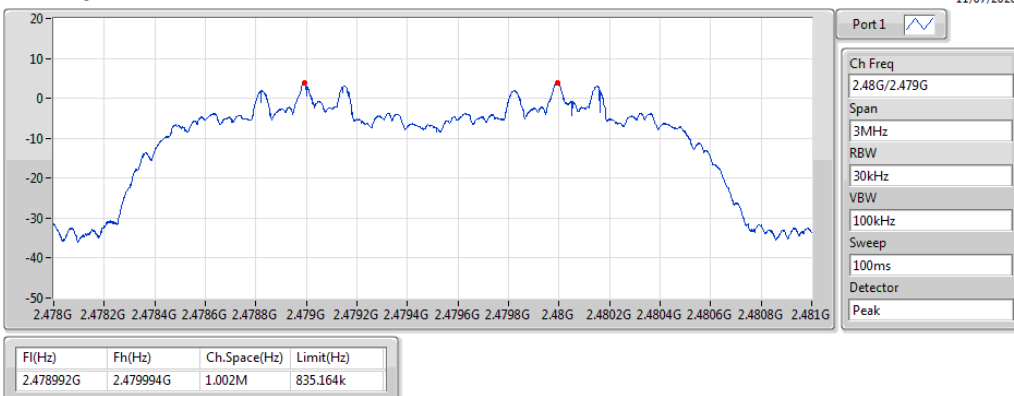


BT-EDR(3Mbps)

2.48G/2.479GHz

Channel Separation-FS

11/07/2020





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	3.88	0.00244
BT-EDR(2Mbps)	3.77	0.00238
BT-EDR(3Mbps)	3.67	0.00233

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	-1.00	3.78	21.00
2440MHz	Pass	-1.00	3.78	21.00
2480MHz	Pass	-1.00	3.88	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	-1.00	3.69	21.00
2440MHz	Pass	-1.00	3.71	21.00
2480MHz	Pass	-1.00	3.77	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	-1.00	3.67	21.00
2440MHz	Pass	-1.00	3.56	21.00
2480MHz	Pass	-1.00	3.58	21.00

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



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	3.05	0.00202
BT-EDR(2Mbps)	0.27	0.00106
BT-EDR(3Mbps)	-0.35	0.00092

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	-1.00	3.00	21.00
2440MHz	Pass	-1.00	2.88	21.00
2480MHz	Pass	-1.00	3.05	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	-1.00	0.27	21.00
2440MHz	Pass	-1.00	0.09	21.00
2480MHz	Pass	-1.00	0.25	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	-1.00	-0.35	21.00
2440MHz	Pass	-1.00	-0.79	21.00
2480MHz	Pass	-1.00	-0.68	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

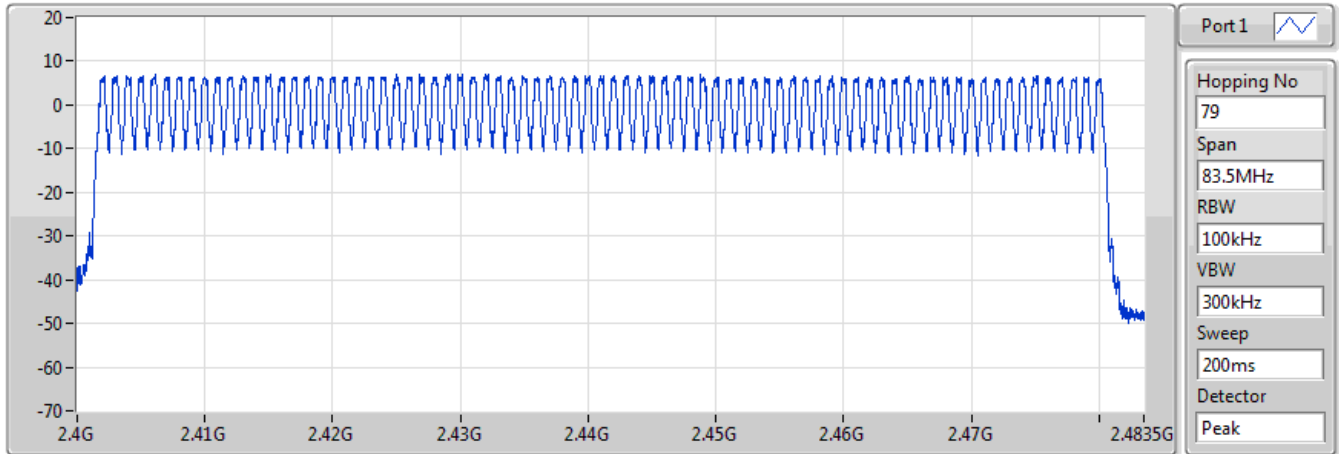
Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2440MHz	Pass	79	15

BT-BR(1Mbps)

2440MHz

Hopping-FS

11/07/2020



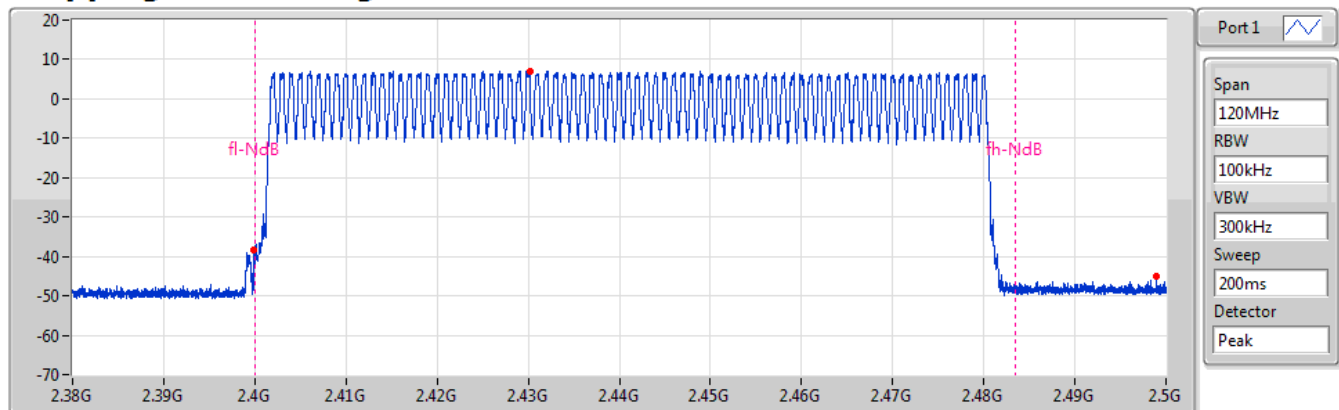
Hopping No	Limit
79	15

BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

11/07/2020



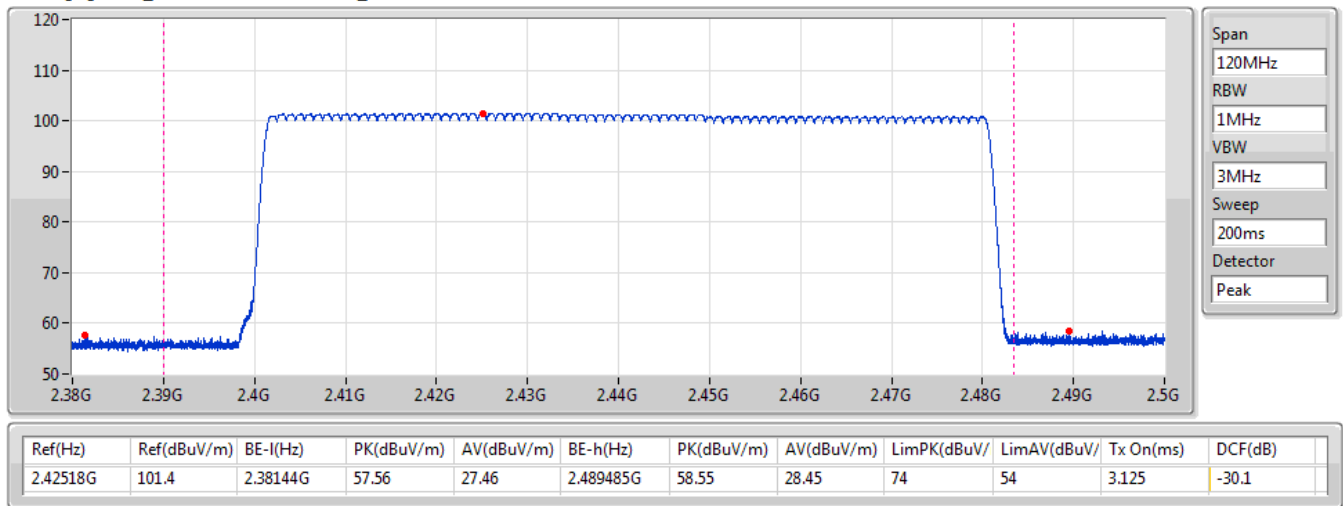
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-12.93	2.430145G	7.07	2.399935G	-38.36	2.49889G	-44.91

BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

11/07/2020

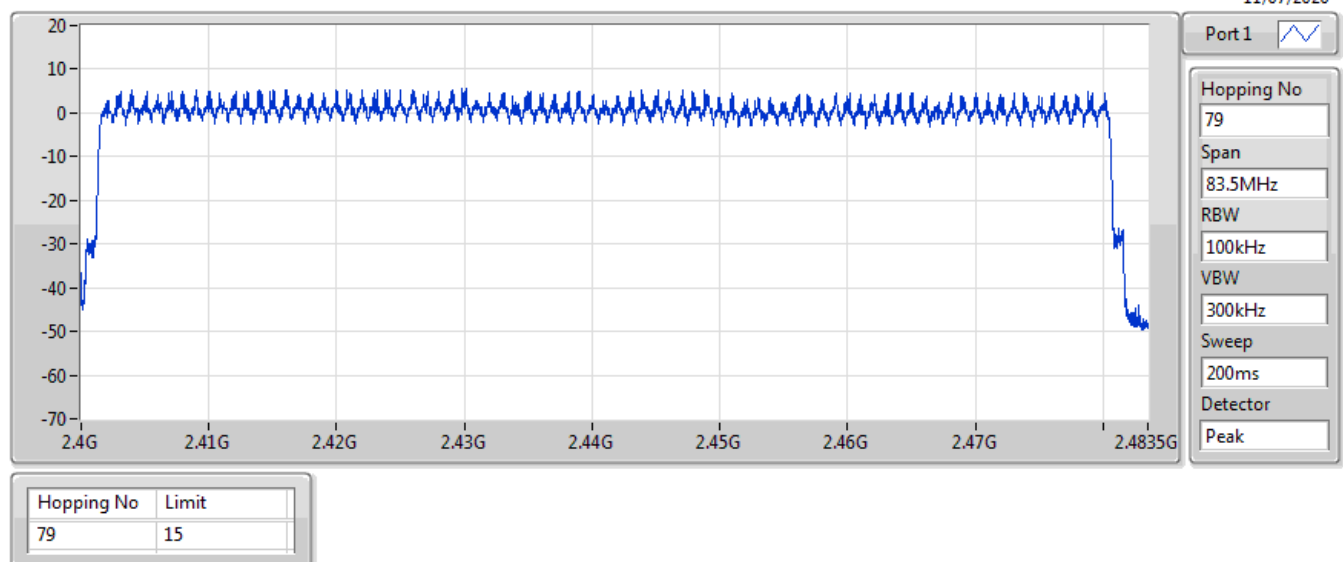


BT-EDR(2Mbps)

2440MHz

Hopping-FS

11/07/2020

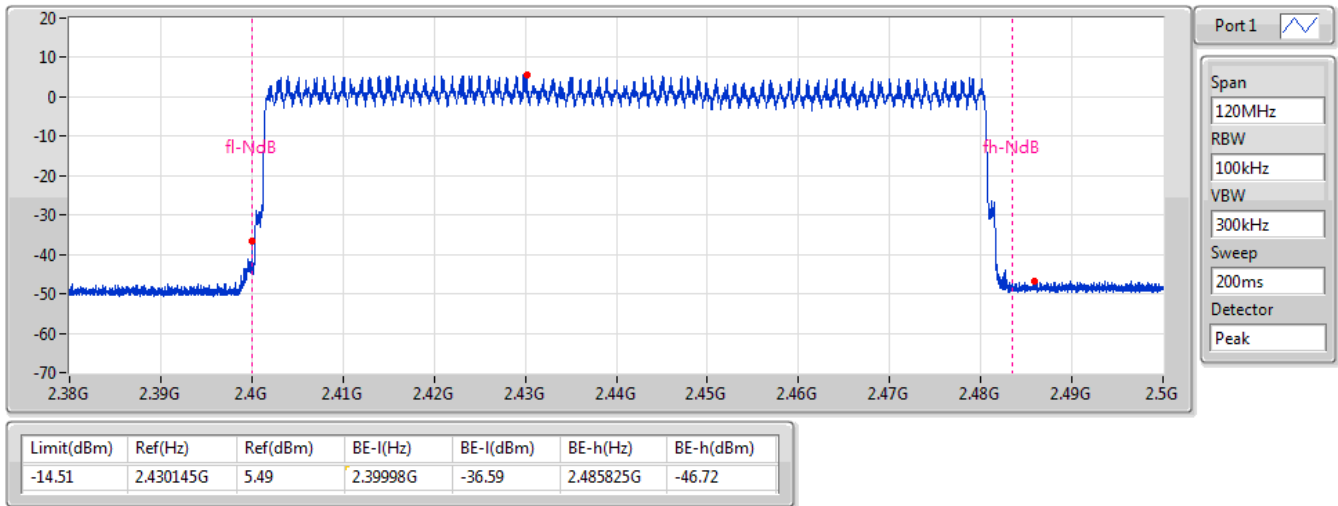


BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

11/07/2020

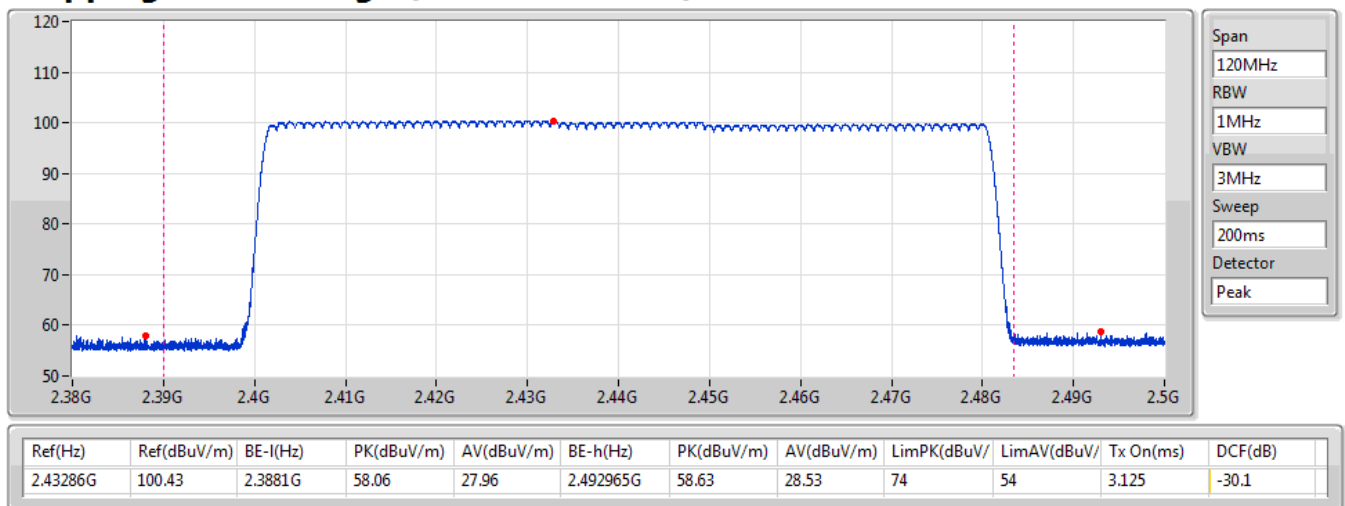


BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

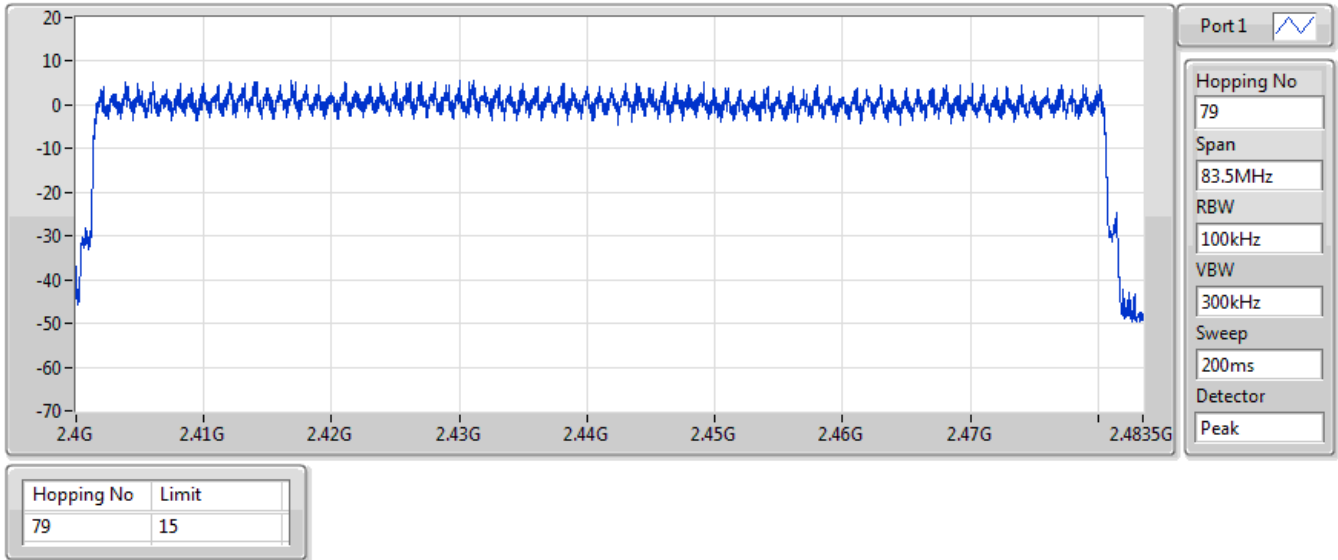
11/07/2020



BT-EDR(3Mbps) 2440MHz

Hopping-FS

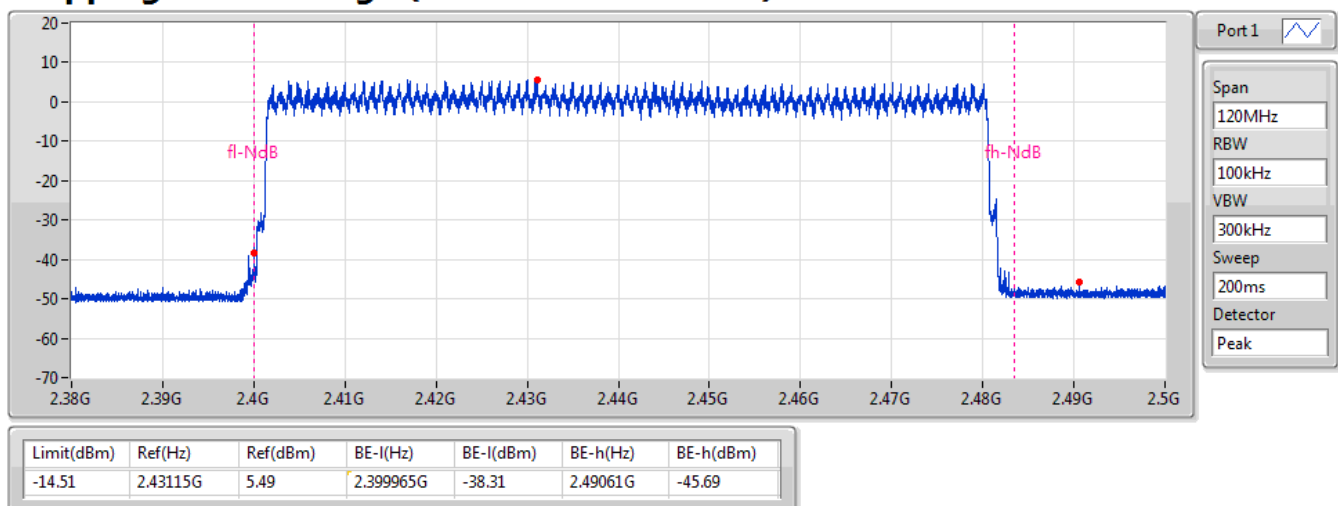
11/07/2020



BT-EDR(3Mbps) 2440MHz

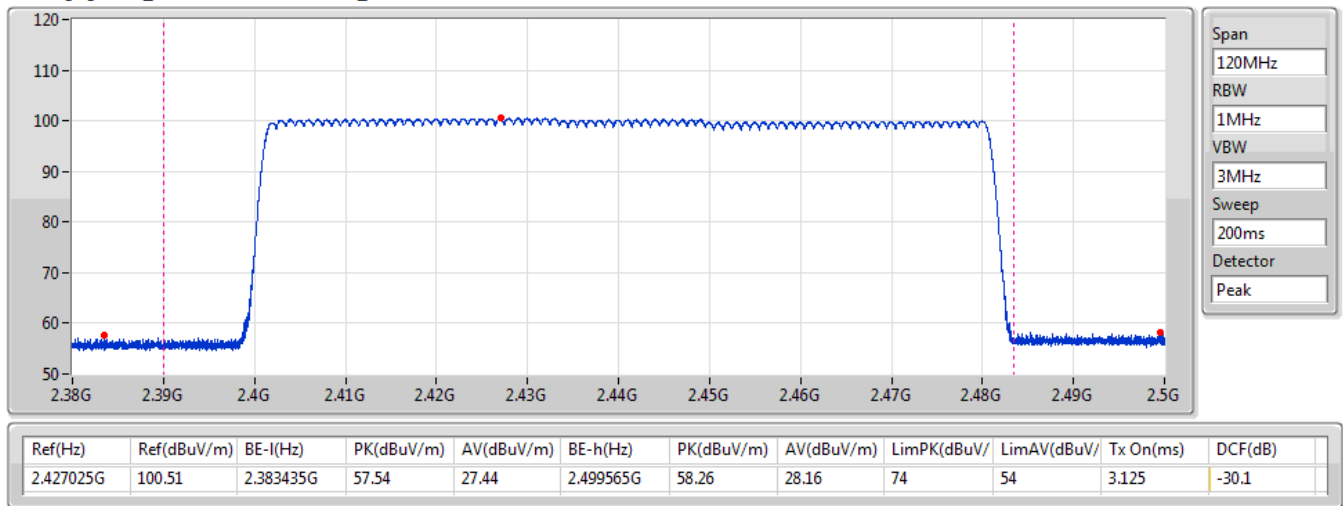
Hopping Ch Bandedge (Non-restricted Band)

11/07/2020



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

11/07/2020





Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	310.33925m_DH5
BT-EDR(2Mbps)	312.9776m_DH5
BT-EDR(3Mbps)	313.16415m_DH5

Result

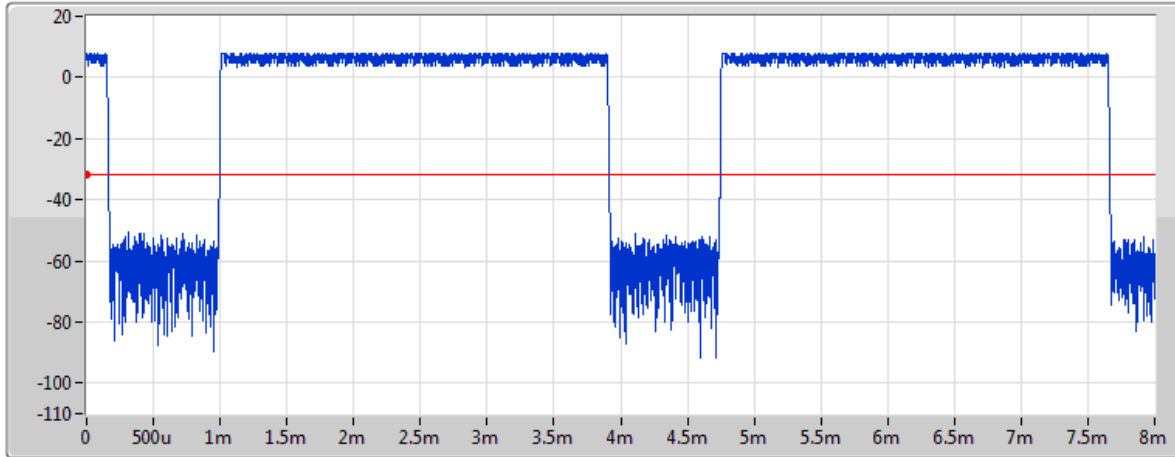
Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	310.33925m_DH5	400m	2.91125m
2440MHz	Pass	8	155.116325m_DH5-AFH	400m	2.91025m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	312.9776m_DH5	400m	2.936m
2440MHz	Pass	8	156.3822m_DH5-AFH	400m	2.934m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	313.16415m_DH5	400m	2.93775m
2440MHz	Pass	8	156.741975m_DH5-AFH	400m	2.94075m

BT-BR(1Mbps)

Dwell-FS

2440MHz

11/07/2020



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.91125ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	310.33925m_DH5	400m	2.91125m

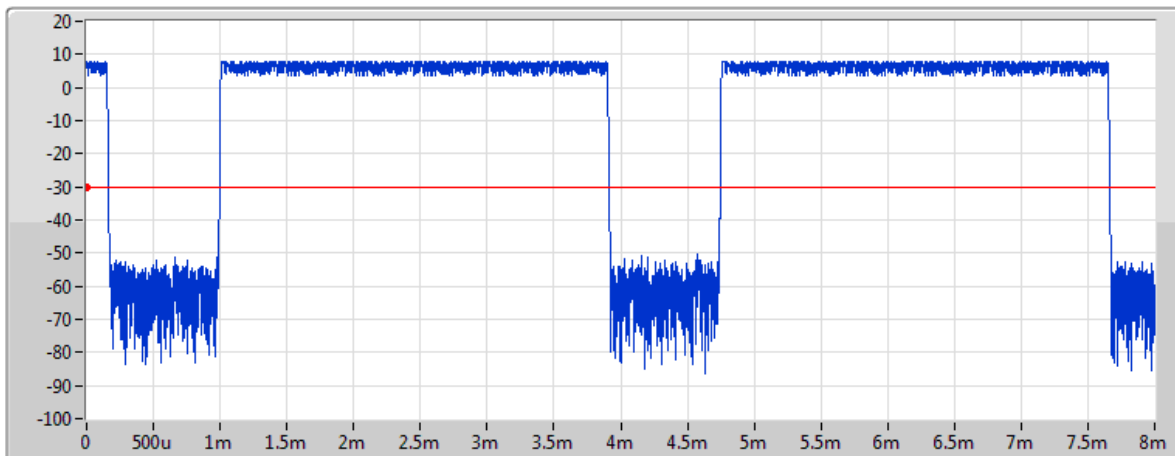
DH5

BT-BR(1Mbps)

Dwell-FS

2440MHz

11/07/2020



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.91025ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	155.116325m_DH5-AFI	400m	2.91025m

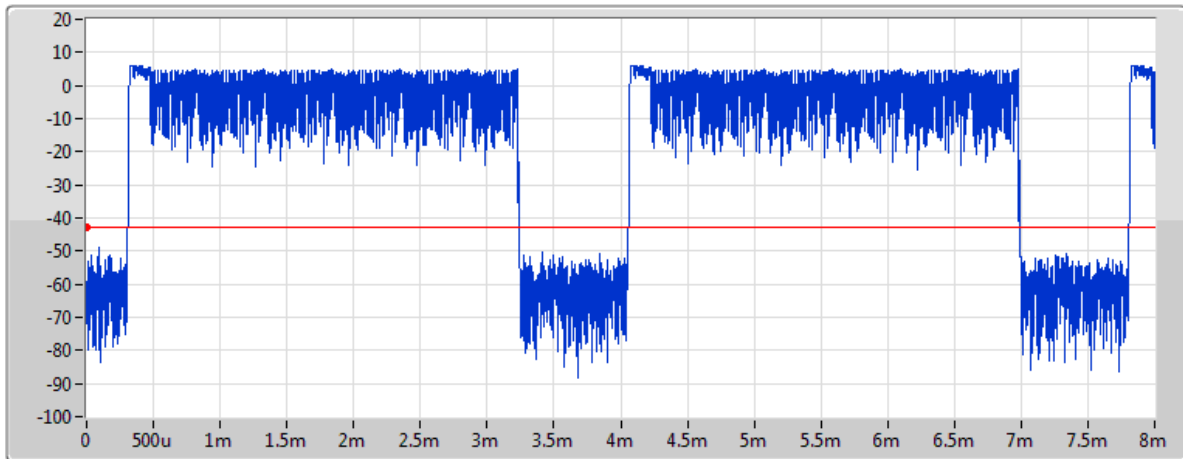
DH5-AFH

BT-EDR(2Mbps)

2440MHz

Dwell-FS

11/07/2020



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.936ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	312.9776m_DH5	400m	2.936m

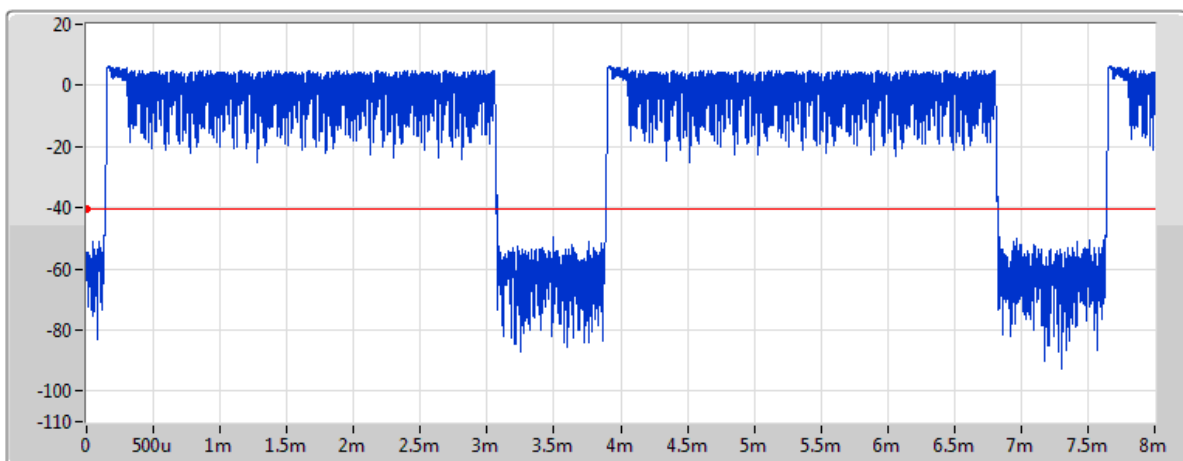
DH5

BT-EDR(2Mbps)

2440MHz

Dwell-FS

11/07/2020



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.934ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	156.3822m_DH5-AFH	400m	2.934m

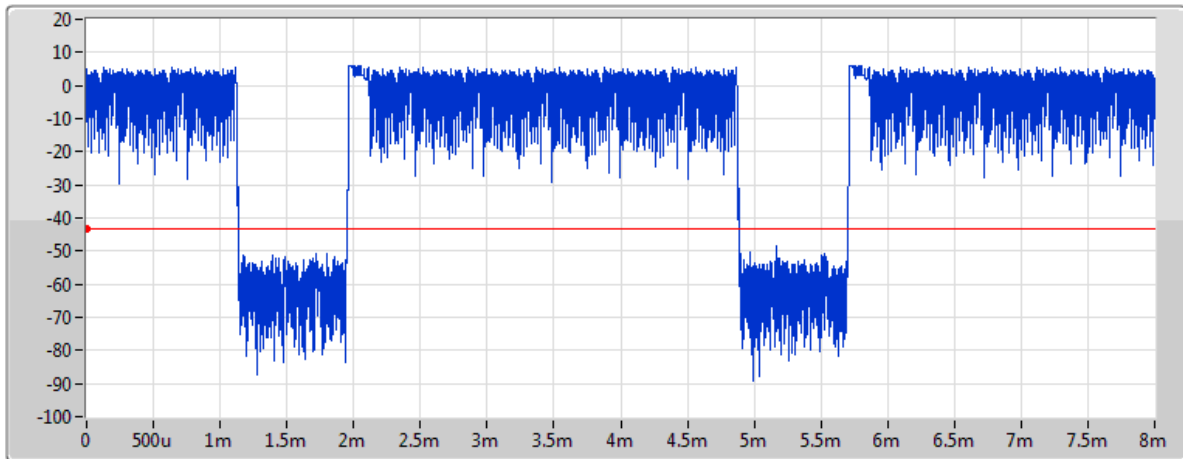
DH5-AFH

BT-EDR(3Mbps)

2440MHz

Dwell-FS

11/07/2020



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.93775ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	313.16415m_DH5	400m	2.93775m

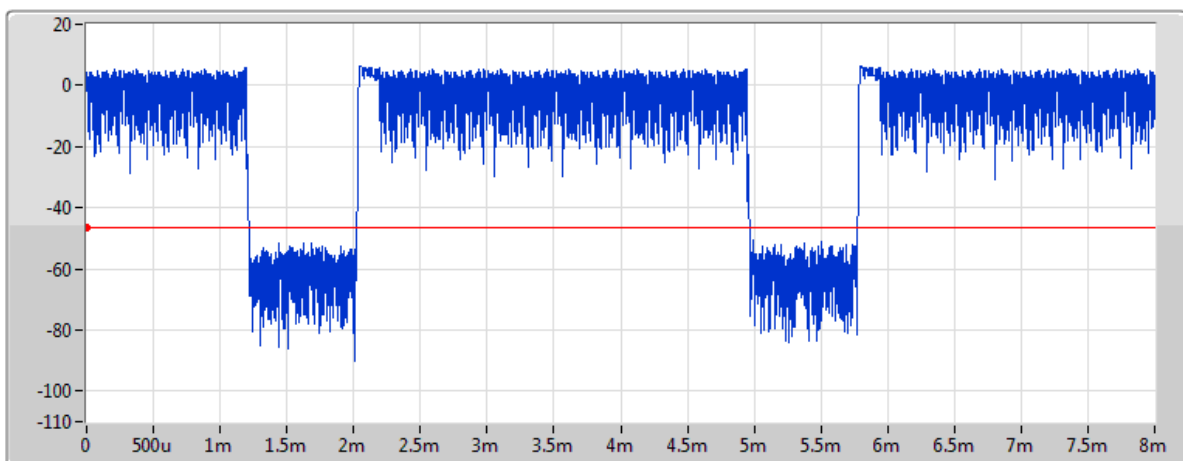
DH5

BT-EDR(3Mbps)

2440MHz

Dwell-FS

11/07/2020



Port 1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.94075ms

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	156.741975m_DH5-AFH	400m	2.94075m

DH5-AFH



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)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.402G	2.65	-17.35	670.96M	-54.31	2.4G	-43.04	2.4G	-45.42	2.49161G	-52.03	7.20527G	-40.88	1
BT-EDR(2Mbps)	Pass	2.40217G	0.85	-19.15	2.3095G	-53.07	2.39997G	-36.41	2.4G	-36.06	2.49674G	-51.69	24.22387G	-40.86	1
BT-EDR(3Mbps)	Pass	2.4018G	1.16	-18.84	1.85801G	-53.72	2.39997G	-36.42	2.4G	-40.48	2.48589G	-51.52	23.20309G	-40.79	1

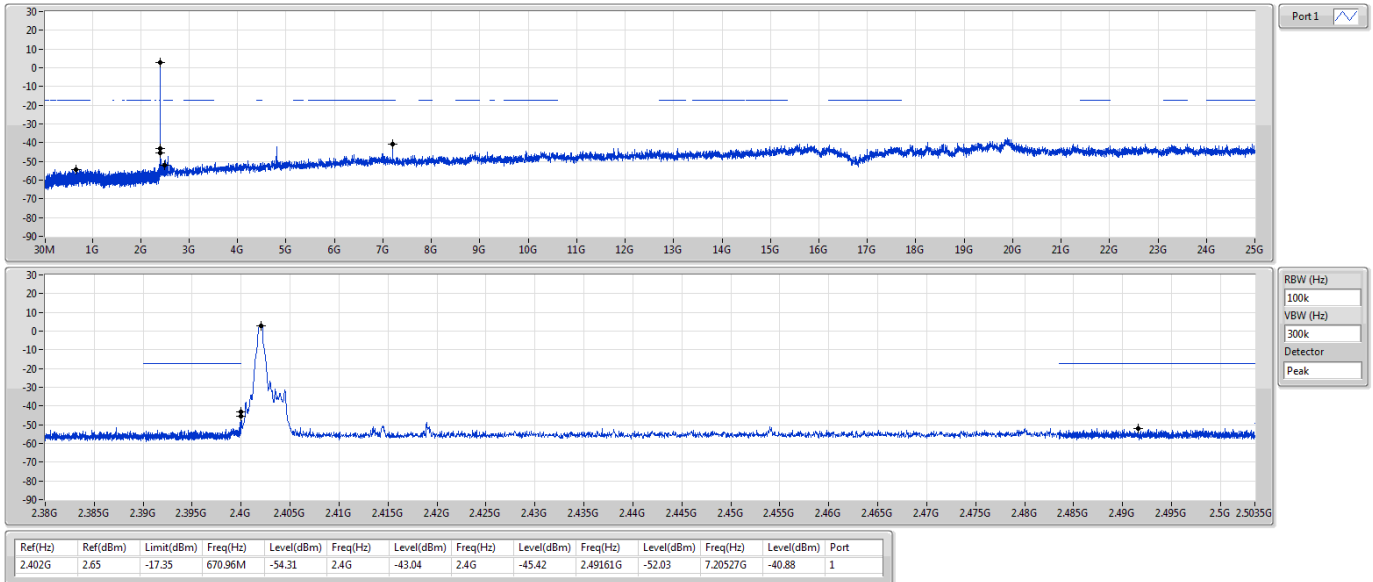
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402G	2.65	-17.35	670.96M	-54.31	2.4G	-43.04	2.4G	-45.42	2.49161G	-52.03	7.20527G	-40.88	1
2440MHz	Pass	2.44G	2.45	-17.55	875.41M	-53.82	2.39364G	-52.34	2.4835G	-54.41	2.49218G	-51.03	17.56772G	-40.78	1
2480MHz	Pass	2.47983G	2.79	-17.21	1.78721G	-53.84	2.394G	-52.50	2.4G	-56.09	2.5035G	-51.68	21.40618G	-40.93	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40217G	0.85	-19.15	2.3095G	-53.07	2.39997G	-36.41	2.4G	-36.06	2.49674G	-51.69	24.22387G	-40.86	1
2440MHz	Pass	2.44012G	0.07	-19.93	2.12503G	-53.10	2.39708G	-52.75	2.4835G	-53.19	2.48426G	-51.99	23.59959G	-39.98	1
2480MHz	Pass	2.48016G	1.43	-18.57	2.03749G	-53.48	2.39089G	-53.54	2.4835G	-54.51	2.50296G	-52.37	16.20106G	-40.77	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.4018G	1.16	-18.84	1.85801G	-53.72	2.39997G	-36.42	2.4G	-40.48	2.48589G	-51.52	23.20309G	-40.79	1
2440MHz	Pass	2.44G	0.69	-19.31	2.13854G	-52.79	2.39859G	-52.97	2.4835G	-55.03	2.49011G	-51.45	23.3212G	-39.92	1
2480MHz	Pass	2.48008G	-0.44	-20.44	2.14529G	-54.14	2.39682G	-52.36	2.4835G	-54.15	2.48732G	-52.37	23.28183G	-40.33	1

BT-BR(1Mbps)

CSENdB-FS

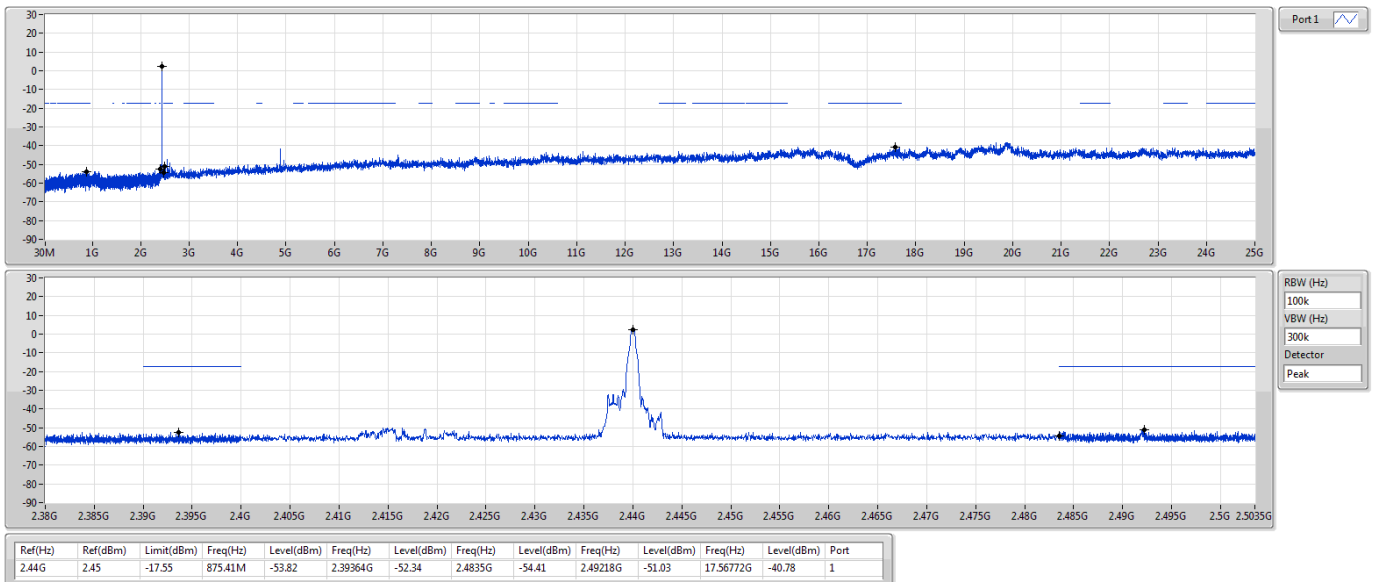
2402MHz



BT-BR(1Mbps)

CSENdB-FS

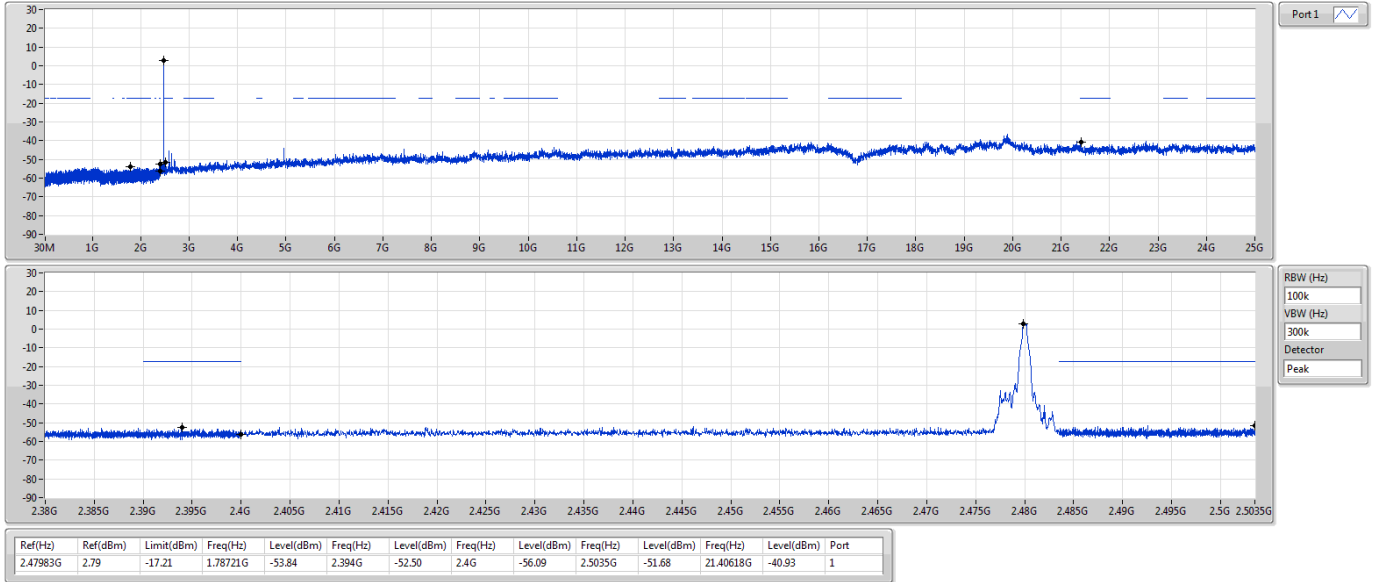
2440MHz



BT-BR(1Mbps)

CSEndB-FS

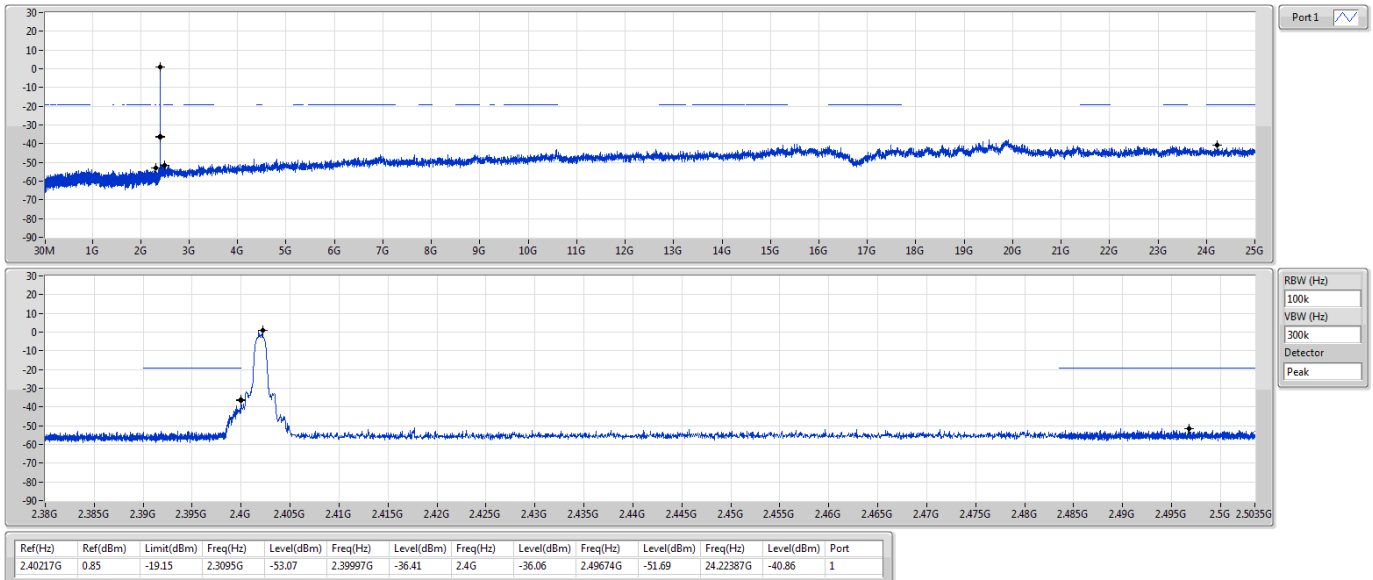
2480MHz



BT-EDR(2Mbps)

CSEndB-FS

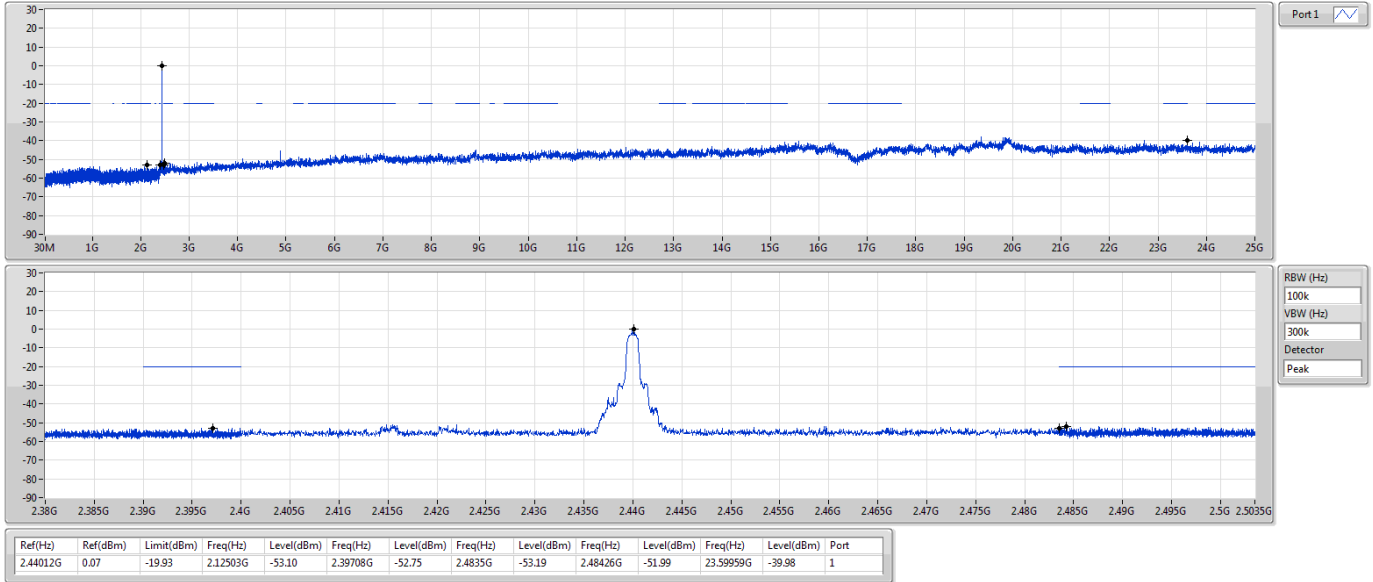
2402MHz



BT-EDR(2Mbps)

CSEndB-FS

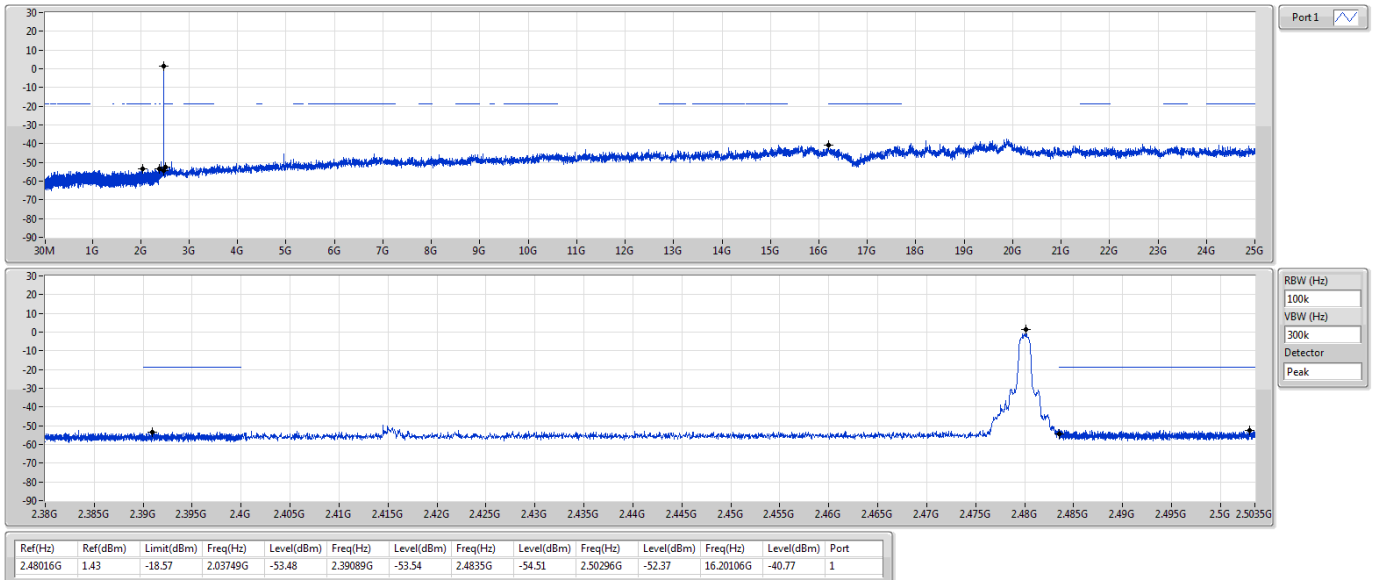
2440MHz



BT-EDR(2Mbps)

CSEndB-FS

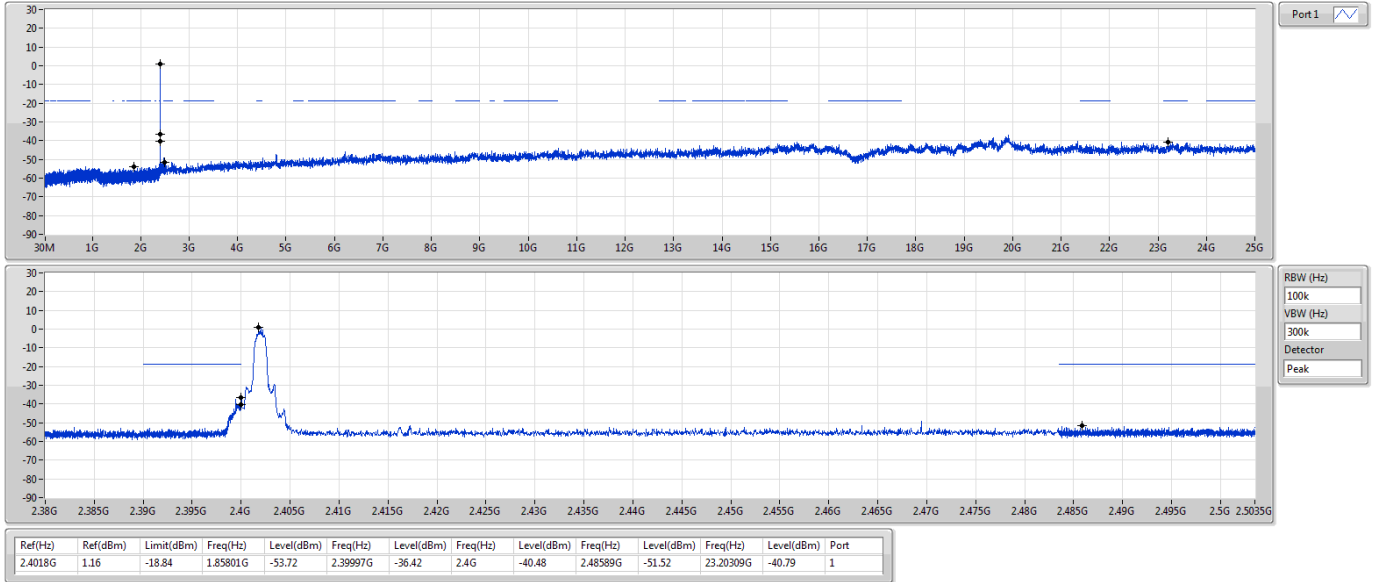
2480MHz



BT-EDR(3Mbps)

CSEndB-FS

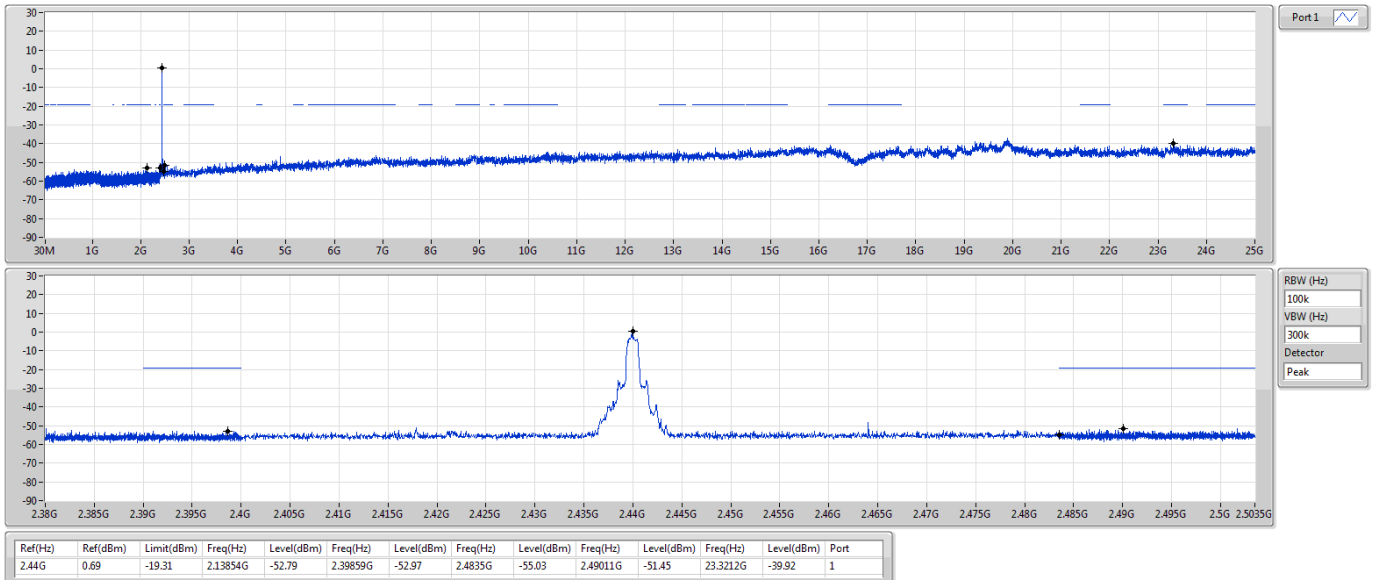
2402MHz



BT-EDR(3Mbps)

CSEndB-FS

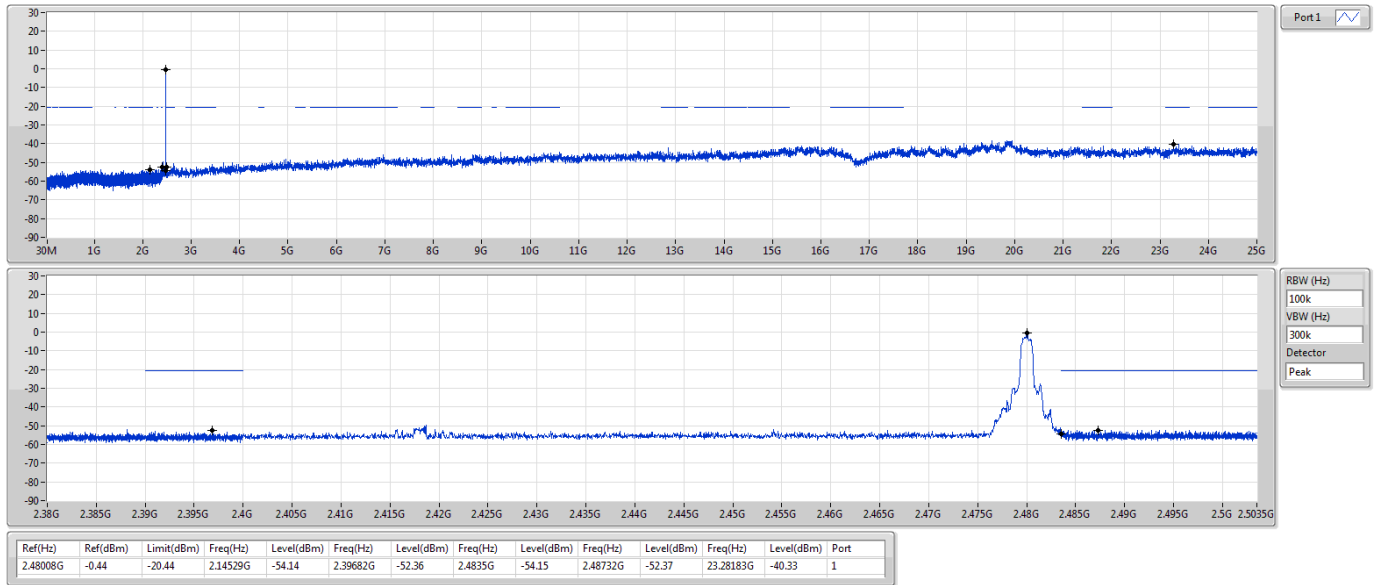
2440MHz



BT-EDR(3Mbps)

CSEndB-FS

2480MHz





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	PK	66.86M	35.39	40.00	-4.61	3	Vertical	360	1.00	-

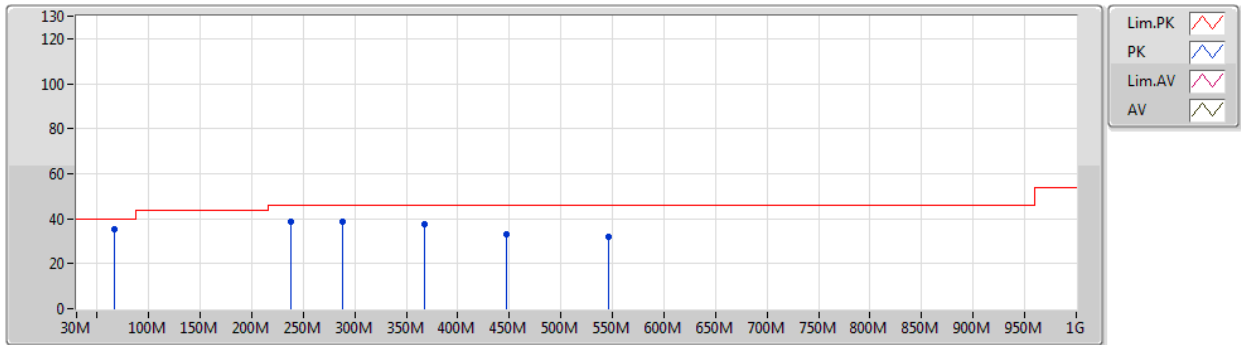
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz_Adapter	Pass	PK	66.86M	35.39	40.00	-4.61	3	Vertical	360	1.00	-
2440MHz_Adapter	Pass	PK	237.58M	38.59	46.00	-7.41	3	Vertical	360	1.00	-
2440MHz_Adapter	Pass	PK	288.02M	38.64	46.00	-7.36	3	Vertical	360	1.00	-
2440MHz_Adapter	Pass	PK	367.56M	37.73	46.00	-8.27	3	Vertical	360	1.00	-
2440MHz_Adapter	Pass	PK	447.1M	33.16	46.00	-12.84	3	Vertical	360	1.00	-
2440MHz_Adapter	Pass	PK	546.04M	31.69	46.00	-14.31	3	Vertical	360	1.00	-
2440MHz_Adapter	Pass	PK	90.14M	26.57	43.50	-16.93	3	Horizontal	0	1.00	-
2440MHz_Adapter	Pass	PK	251.16M	29.14	46.00	-16.86	3	Horizontal	0	1.00	-
2440MHz_Adapter	Pass	PK	262.8M	30.71	46.00	-15.29	3	Horizontal	0	1.00	-
2440MHz_Adapter	Pass	PK	330.7M	31.33	46.00	-14.67	3	Horizontal	0	1.00	-
2440MHz_Adapter	Pass	PK	507.24M	33.75	46.00	-12.25	3	Horizontal	0	1.00	-
2440MHz_Adapter	Pass	PK	516.94M	33.96	46.00	-12.04	3	Horizontal	0	1.00	-
2440MHz_USB	Pass	PK	239.52M	40.56	46.00	-5.44	3	Vertical	360	1.00	-
2440MHz_USB	Pass	PK	355.92M	35.31	46.00	-10.69	3	Vertical	360	1.00	-
2440MHz_USB	Pass	PK	499.48M	35.13	46.00	-10.87	3	Vertical	360	1.00	-
2440MHz_USB	Pass	PK	516.94M	36.27	46.00	-9.73	3	Vertical	360	1.00	-
2440MHz_USB	Pass	QP	62.98M	27.37	40.00	-12.63	3	Vertical	33	1.00	-
2440MHz_USB	Pass	QP	99.84M	31.22	43.50	-12.28	3	Vertical	157	1.00	-
2440MHz_USB	Pass	PK	165.8M	30.84	43.50	-12.66	3	Horizontal	0	1.00	-
2440MHz_USB	Pass	PK	212.36M	36.25	43.50	-7.25	3	Horizontal	0	1.00	-
2440MHz_USB	Pass	PK	276.38M	37.89	46.00	-8.11	3	Horizontal	0	1.00	-
2440MHz_USB	Pass	PK	367.56M	38.09	46.00	-7.91	3	Horizontal	0	1.00	-
2440MHz_USB	Pass	PK	375.32M	36.71	46.00	-9.29	3	Horizontal	0	1.00	-
2440MHz_USB	Pass	PK	516.94M	36.51	46.00	-9.49	3	Horizontal	0	1.00	-

BT-BR(1Mbps)

2440MHz_Adapter

20/07/2020

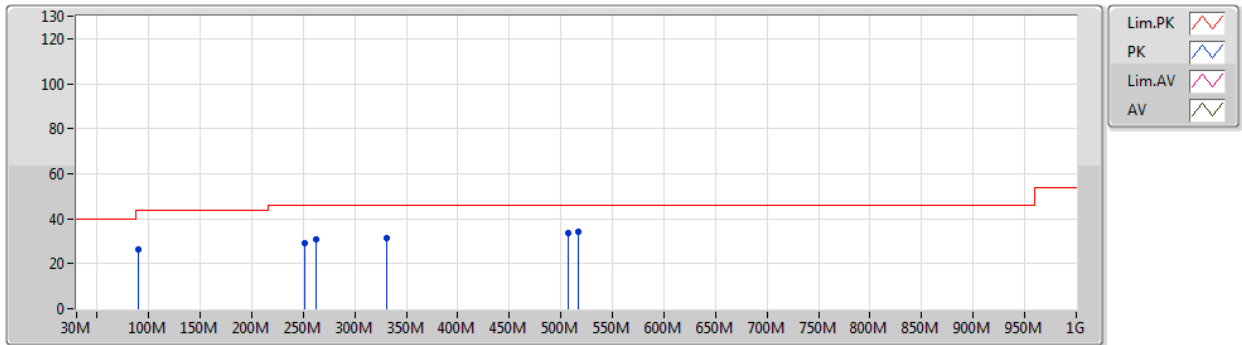


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	66.86M	35.39	40.00	-4.61	-25.19	3	Vertical	360	1.00	-	60.58	11.11	0.60	36.90
PK	237.58M	38.59	46.00	-7.41	-19.06	3	Vertical	360	1.00	-	57.65	16.06	1.25	36.37
PK	288.02M	38.64	46.00	-7.36	-16.90	3	Vertical	360	1.00	-	55.54	18.09	1.38	36.37
PK	367.56M	37.73	46.00	-8.27	-15.11	3	Vertical	360	1.00	-	52.84	19.79	1.57	36.47
PK	447.1M	33.16	46.00	-12.84	-12.72	3	Vertical	360	1.00	-	45.88	22.09	1.79	36.60
PK	546.04M	31.69	46.00	-14.31	-11.49	3	Vertical	360	1.00	-	43.18	23.60	1.99	37.08

BT-BR(1Mbps)

2440MHz_Adapter

20/07/2020

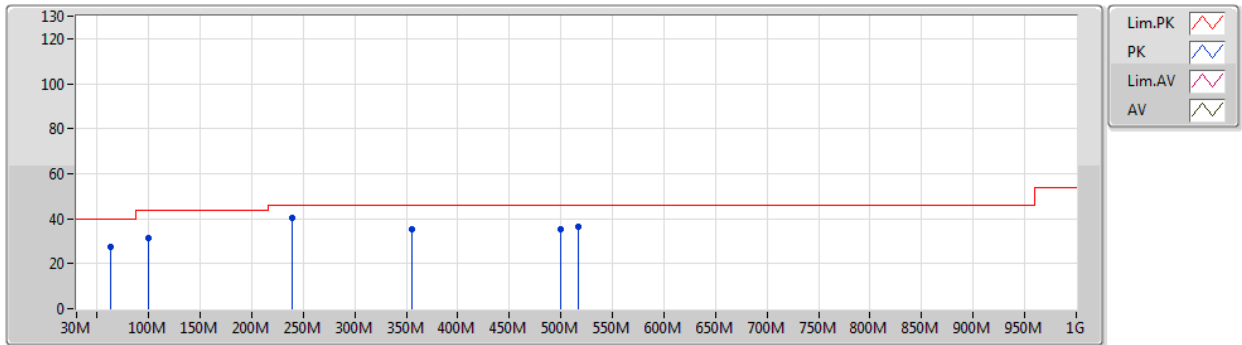


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	90.14M	26.57	43.50	-16.93	-22.09	3	Horizontal	0	1.00	-	48.66	13.84	0.70	36.63
PK	251.16M	29.14	46.00	-16.86	-17.36	3	Horizontal	0	1.00	-	46.50	17.77	1.30	36.43
PK	262.8M	30.71	46.00	-15.29	-15.79	3	Horizontal	0	1.00	-	46.50	19.29	1.33	36.41
PK	330.7M	31.33	46.00	-14.67	-16.19	3	Horizontal	0	1.00	-	47.52	18.79	1.46	36.44
PK	507.24M	33.75	46.00	-12.25	-12.08	3	Horizontal	0	1.00	-	45.83	23.02	1.91	37.01
PK	516.94M	33.96	46.00	-12.04	-12.06	3	Horizontal	0	1.00	-	46.02	23.04	1.93	37.03

BT-BR(1Mbps)

2440MHz_USB

20/07/2020

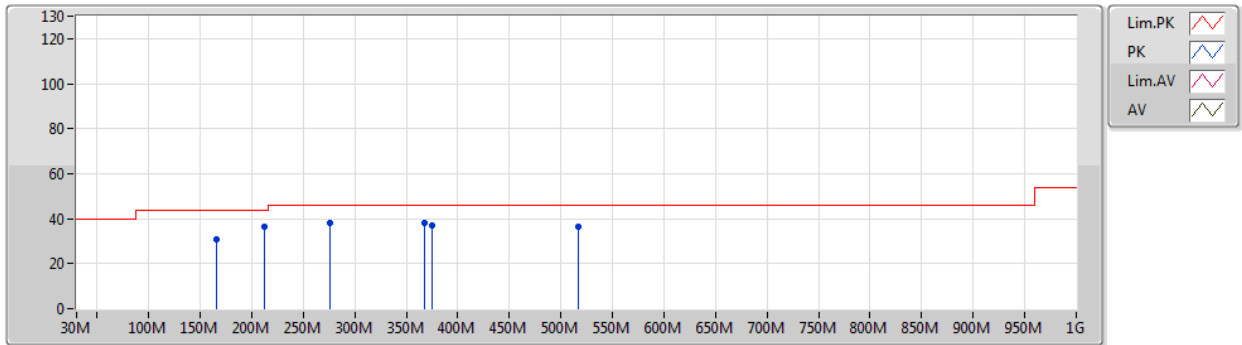


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	239.52M	40.56	46.00	-5.44	-18.84	3	Vertical	360	1.00	-	59.40	16.28	1.26	36.38
PK	355.92M	35.31	46.00	-10.69	-15.35	3	Vertical	360	1.00	-	50.66	19.62	1.52	36.49
PK	499.48M	35.13	46.00	-10.87	-12.18	3	Vertical	360	1.00	-	47.31	22.92	1.90	37.00
PK	516.94M	36.27	46.00	-9.73	-12.06	3	Vertical	360	1.00	-	48.33	23.04	1.93	37.03
QP	62.98M	27.37	40.00	-12.63	-25.53	3	Vertical	33	1.00	-	52.90	10.82	0.60	36.95
QP	99.84M	31.22	43.50	-12.28	-20.78	3	Vertical	157	1.00	-	52.00	14.98	0.80	36.56

BT-BR(1Mbps)

2440MHz_USB

20/07/2020



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	165.8M	30.84	43.50	-12.66	-20.20	3	Horizontal	0	1.00	-	51.04	15.11	1.03	36.34
PK	212.36M	36.25	43.50	-7.25	-21.02	3	Horizontal	0	1.00	-	57.27	14.07	1.15	36.24
PK	276.38M	37.89	46.00	-8.11	-17.18	3	Horizontal	0	1.00	-	55.07	17.86	1.35	36.39
PK	367.56M	38.09	46.00	-7.91	-15.11	3	Horizontal	0	1.00	-	53.20	19.79	1.57	36.47
PK	375.32M	36.71	46.00	-9.29	-14.90	3	Horizontal	0	1.00	-	51.61	19.96	1.60	36.46
PK	516.94M	36.51	46.00	-9.49	-12.06	3	Horizontal	0	1.00	-	48.57	23.04	1.93	37.03



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	PK	4.87957G	59.73	74.00	-14.27	3	Vertical	99	1.71	-
BT-BR3_Nss1_1TX	Pass	PK	2.4978G	58.88	74.00	-15.12	3	Horizontal	33	1.42	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3722G	35.82	54.00	-18.18	3	Vertical	59	1.00	-
2402MHz	Pass	AV	2.4022G	68.68	Inf	-Inf	3	Vertical	59	1.00	-
2402MHz	Pass	PK	2.3722G	58.32	74.00	-15.68	3	Vertical	59	1.00	-
2402MHz	Pass	PK	2.4022G	91.18	Inf	-Inf	3	Vertical	59	1.00	-
2402MHz	Pass	AV	2.3598G	35.67	54.00	-18.33	3	Horizontal	84	1.35	-
2402MHz	Pass	AV	2.4022G	72.91	Inf	-Inf	3	Horizontal	84	1.35	-
2402MHz	Pass	PK	2.3598G	58.17	74.00	-15.83	3	Horizontal	84	1.35	-
2402MHz	Pass	PK	2.4022G	95.41	Inf	-Inf	3	Horizontal	84	1.35	-
2402MHz	Pass	AV	4.80388G	28.91	54.00	-25.09	3	Vertical	102	1.50	-
2402MHz	Pass	PK	4.80388G	51.41	74.00	-22.59	3	Vertical	102	1.50	-
2402MHz	Pass	AV	4.8043G	31.64	54.00	-22.36	3	Horizontal	125	1.00	-
2402MHz	Pass	PK	4.8043G	54.14	74.00	-19.86	3	Horizontal	125	1.00	-
2440MHz	Pass	AV	2.3852G	36.03	54.00	-17.97	3	Vertical	86	2.26	-
2440MHz	Pass	AV	2.44G	70.93	Inf	-Inf	3	Vertical	86	2.26	-
2440MHz	Pass	AV	2.4996G	35.87	54.00	-18.13	3	Vertical	86	2.26	-
2440MHz	Pass	PK	2.3852G	58.53	74.00	-15.47	3	Vertical	86	2.26	-
2440MHz	Pass	PK	2.44G	93.43	Inf	-Inf	3	Vertical	86	2.26	-
2440MHz	Pass	PK	2.4996G	58.37	74.00	-15.63	3	Vertical	86	2.26	-
2440MHz	Pass	AV	2.3608G	35.21	54.00	-18.79	3	Horizontal	111	1.00	-
2440MHz	Pass	AV	2.44G	74.69	Inf	-Inf	3	Horizontal	111	1.00	-
2440MHz	Pass	AV	2.4956G	36.06	54.00	-17.94	3	Horizontal	111	1.00	-
2440MHz	Pass	PK	2.3608G	57.71	74.00	-16.29	3	Horizontal	111	1.00	-
2440MHz	Pass	PK	2.44G	97.19	Inf	-Inf	3	Horizontal	111	1.00	-
2440MHz	Pass	PK	2.4956G	58.56	74.00	-15.44	3	Horizontal	111	1.00	-
2440MHz	Pass	AV	4.87957G	37.23	54.00	-16.77	3	Vertical	99	1.71	-
2440MHz	Pass	AV	7.32032G	31.63	54.00	-22.37	3	Vertical	102	1.15	-
2440MHz	Pass	PK	4.87957G	59.73	74.00	-14.27	3	Vertical	99	1.71	-
2440MHz	Pass	PK	7.32032G	54.13	74.00	-19.87	3	Vertical	102	1.15	-
2440MHz	Pass	AV	4.87964G	37.23	54.00	-16.77	3	Horizontal	126	1.00	-
2440MHz	Pass	AV	7.32082G	30.59	54.00	-23.41	3	Horizontal	340	1.00	-
2440MHz	Pass	PK	4.87964G	59.73	74.00	-14.27	3	Horizontal	126	1.00	-
2440MHz	Pass	PK	7.32082G	53.09	74.00	-20.91	3	Horizontal	340	1.00	-
2480MHz	Pass	AV	2.4798G	72.24	Inf	-Inf	3	Vertical	86	1.99	-
2480MHz	Pass	AV	2.496G	35.65	54.00	-18.35	3	Vertical	86	1.99	-
2480MHz	Pass	PK	2.4798G	94.74	Inf	-Inf	3	Vertical	86	1.99	-
2480MHz	Pass	PK	2.496G	58.15	74.00	-15.85	3	Vertical	86	1.99	-
2480MHz	Pass	AV	2.4798G	76.21	Inf	-Inf	3	Horizontal	33	1.19	-
2480MHz	Pass	AV	2.4894G	35.69	54.00	-18.31	3	Horizontal	33	1.19	-
2480MHz	Pass	PK	2.4798G	98.71	Inf	-Inf	3	Horizontal	33	1.19	-
2480MHz	Pass	PK	2.4894G	58.19	74.00	-15.81	3	Horizontal	33	1.19	-
2480MHz	Pass	AV	4.9596G	33.34	54.00	-20.66	3	Vertical	100	1.50	-
2480MHz	Pass	AV	7.44042G	30.96	54.00	-23.04	3	Vertical	105	1.34	-
2480MHz	Pass	PK	4.9596G	55.84	74.00	-18.16	3	Vertical	100	1.50	-
2480MHz	Pass	PK	7.44042G	53.46	74.00	-20.54	3	Vertical	105	1.34	-
2480MHz	Pass	AV	4.96021G	35.30	54.00	-18.70	3	Horizontal	47	1.24	-
2480MHz	Pass	AV	7.44037G	31.05	54.00	-22.95	3	Horizontal	326	1.02	-
2480MHz	Pass	PK	4.96021G	57.80	74.00	-16.20	3	Horizontal	47	1.24	-

Remark :

Page No. : G2 of G28

$$\text{Level (dBuV/m)} = \text{Raw(Read Level)} + \text{AF(Antenna Factor)} + \text{CL(Cable Loss)} - \text{PA(Preamp Factor)}$$

062338-01

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2480MHz	Pass	PK	7.44037G	53.55	74.00	-20.45	3	Horizontal	326	1.02	-
BT-BR3_Nss1_1TX	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3782G	35.57	54.00	-18.43	3	Vertical	84	3.00	-
2402MHz	Pass	AV	2.402G	69.01	Inf	-Inf	3	Vertical	84	3.00	-
2402MHz	Pass	PK	2.3782G	58.07	74.00	-15.93	3	Vertical	84	3.00	-
2402MHz	Pass	PK	2.402G	91.51	Inf	-Inf	3	Vertical	84	3.00	-
2402MHz	Pass	AV	2.3686G	35.45	54.00	-18.55	3	Horizontal	80	1.36	-
2402MHz	Pass	AV	2.402G	70.44	Inf	-Inf	3	Horizontal	80	1.36	-
2402MHz	Pass	PK	2.3686G	57.95	74.00	-16.05	3	Horizontal	80	1.36	-
2402MHz	Pass	PK	2.402G	92.94	Inf	-Inf	3	Horizontal	80	1.36	-
2402MHz	Pass	AV	4.80381G	31.74	54.00	-22.26	3	Vertical	101	1.50	-
2402MHz	Pass	PK	4.80381G	54.24	74.00	-19.76	3	Vertical	101	1.50	-
2402MHz	Pass	AV	4.80399G	33.99	54.00	-20.01	3	Horizontal	125	1.00	-
2402MHz	Pass	PK	4.80399G	56.49	74.00	-17.51	3	Horizontal	125	1.00	-
2440MHz	Pass	AV	2.3668G	35.28	54.00	-18.72	3	Vertical	85	2.88	-
2440MHz	Pass	AV	2.44G	69.65	Inf	-Inf	3	Vertical	85	2.88	-
2440MHz	Pass	AV	2.496G	35.90	54.00	-18.10	3	Vertical	85	2.88	-
2440MHz	Pass	PK	2.3668G	57.78	74.00	-16.22	3	Vertical	85	2.88	-
2440MHz	Pass	PK	2.44G	92.15	Inf	-Inf	3	Vertical	85	2.88	-
2440MHz	Pass	PK	2.496G	58.40	74.00	-15.60	3	Vertical	85	2.88	-
2440MHz	Pass	AV	2.36G	35.59	54.00	-18.41	3	Horizontal	111	1.00	-
2440MHz	Pass	AV	2.44G	73.23	Inf	-Inf	3	Horizontal	111	1.00	-
2440MHz	Pass	AV	2.4872G	35.64	54.00	-18.36	3	Horizontal	111	1.00	-
2440MHz	Pass	PK	2.36G	58.09	74.00	-15.91	3	Horizontal	111	1.00	-
2440MHz	Pass	PK	2.44G	95.73	Inf	-Inf	3	Horizontal	111	1.00	-
2440MHz	Pass	PK	2.4872G	58.14	74.00	-15.86	3	Horizontal	111	1.00	-
2440MHz	Pass	AV	4.8799G	32.98	54.00	-21.02	3	Vertical	99	1.72	-
2440MHz	Pass	AV	7.32G	30.24	54.00	-23.76	3	Vertical	75	2.87	-
2440MHz	Pass	PK	4.8799G	55.48	74.00	-18.52	3	Vertical	99	1.72	-
2440MHz	Pass	PK	7.32G	52.74	74.00	-21.26	3	Vertical	75	2.87	-
2440MHz	Pass	AV	4.88007G	33.57	54.00	-20.43	3	Horizontal	126	1.00	-
2440MHz	Pass	AV	7.31924G	29.91	54.00	-24.09	3	Horizontal	270	1.90	-
2440MHz	Pass	PK	4.88007G	56.07	74.00	-17.93	3	Horizontal	126	1.00	-
2440MHz	Pass	PK	7.31924G	52.41	74.00	-21.59	3	Horizontal	270	1.90	-
2480MHz	Pass	AV	2.48G	70.36	Inf	-Inf	3	Vertical	87	1.98	-
2480MHz	Pass	AV	2.4986G	35.93	54.00	-18.07	3	Vertical	87	1.98	-
2480MHz	Pass	PK	2.48G	92.86	Inf	-Inf	3	Vertical	87	1.98	-
2480MHz	Pass	PK	2.4986G	58.43	74.00	-15.57	3	Vertical	87	1.98	-
2480MHz	Pass	AV	2.48G	74.10	Inf	-Inf	3	Horizontal	33	1.42	-
2480MHz	Pass	AV	2.4978G	36.38	54.00	-17.62	3	Horizontal	33	1.42	-
2480MHz	Pass	PK	2.48G	96.60	Inf	-Inf	3	Horizontal	33	1.42	-
2480MHz	Pass	PK	2.4978G	58.88	74.00	-15.12	3	Horizontal	33	1.42	-
2480MHz	Pass	AV	4.9603G	30.61	54.00	-23.39	3	Vertical	99	1.16	-
2480MHz	Pass	AV	7.44906G	30.26	54.00	-23.74	3	Vertical	352	3.00	-
2480MHz	Pass	PK	4.9603G	53.11	74.00	-20.89	3	Vertical	99	1.16	-
2480MHz	Pass	PK	7.44906G	52.76	74.00	-21.24	3	Vertical	352	3.00	-
2480MHz	Pass	AV	4.95958G	32.02	54.00	-21.98	3	Horizontal	45	1.50	-
2480MHz	Pass	AV	7.4535G	29.95	54.00	-24.05	3	Horizontal	75	1.50	-
2480MHz	Pass	PK	4.95958G	54.52	74.00	-19.48	3	Horizontal	45	1.50	-

Remark :

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$$\text{Level (dBuV/m)} = \text{Raw(Read Level)} + \text{AF(Antenna Factor)} + \text{CL(Cable Loss)} - \text{PA(Preamp Factor)}$$

062338-01



RSE TX above 1GHz

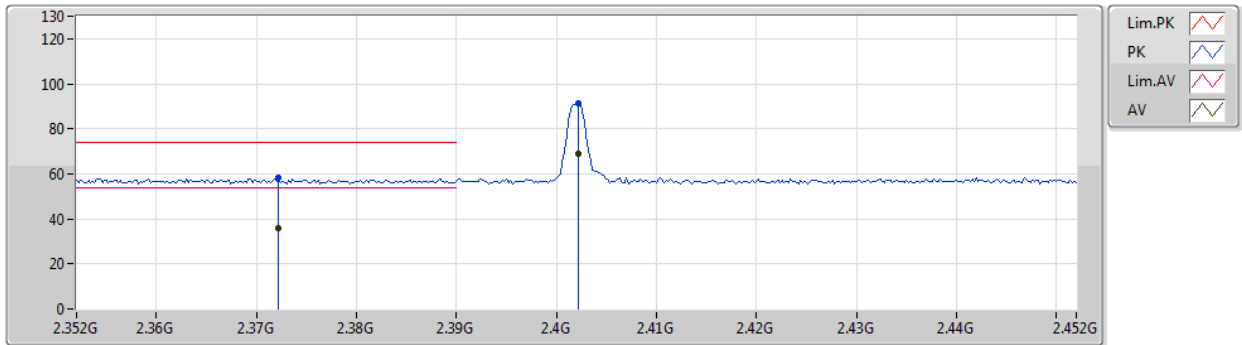
Appendix G.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2480MHz	Pass	PK	7.4535G	52.45	74.00	-21.55	3	Horizontal	75	1.50	-

BT-BR(1Mbps)

2402MHz_TX

17/07/2020

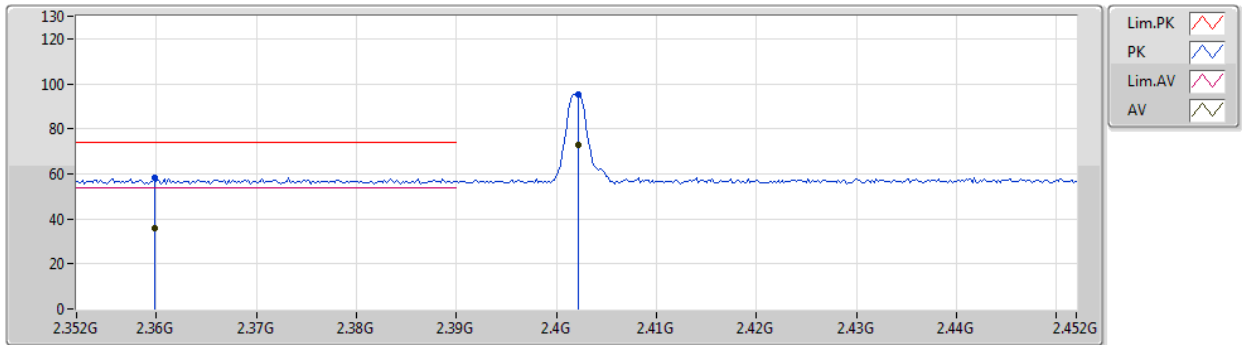


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3722G	35.82	54.00	-18.18	32.75	3	Vertical	59	1.00	-	3.07	27.71	5.04	-
AV	2.4022G	68.68	Inf	-Inf	32.70	3	Vertical	59	1.00	-	35.98	27.60	5.10	-
PK	2.3722G	58.32	74.00	-15.68	32.75	3	Vertical	59	1.00	-	25.57	27.71	5.04	-
PK	2.4022G	91.18	Inf	-Inf	32.70	3	Vertical	59	1.00	-	58.48	27.60	5.10	-

BT-BR(1Mbps)

2402MHz_TX

17/07/2020

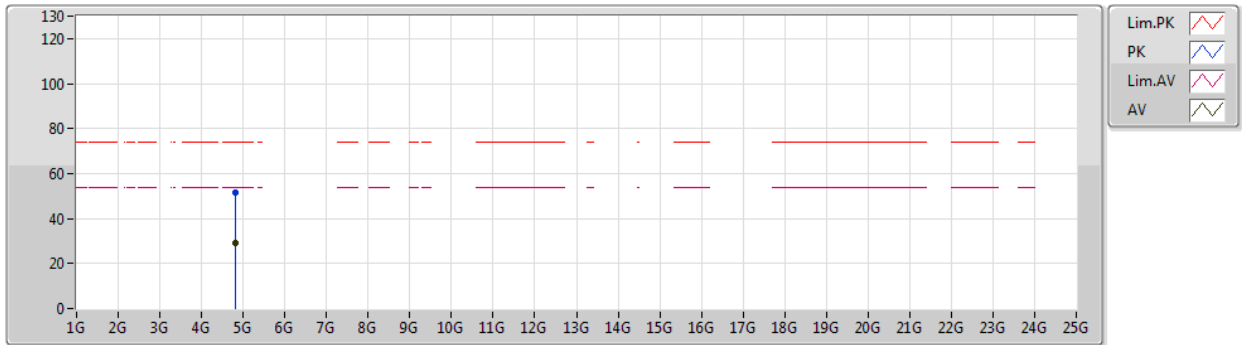


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3598G	35.67	54.00	-18.33	32.78	3	Horizontal	84	1.35	-	2.89	27.76	5.02	-
AV	2.4022G	72.91	Inf	-Inf	32.70	3	Horizontal	84	1.35	-	40.21	27.60	5.10	-
PK	2.3598G	58.17	74.00	-15.83	32.78	3	Horizontal	84	1.35	-	25.39	27.76	5.02	-
PK	2.4022G	95.41	Inf	-Inf	32.70	3	Horizontal	84	1.35	-	62.71	27.60	5.10	-

BT-BR(1Mbps)

17/07/2020

2402MHz_TX

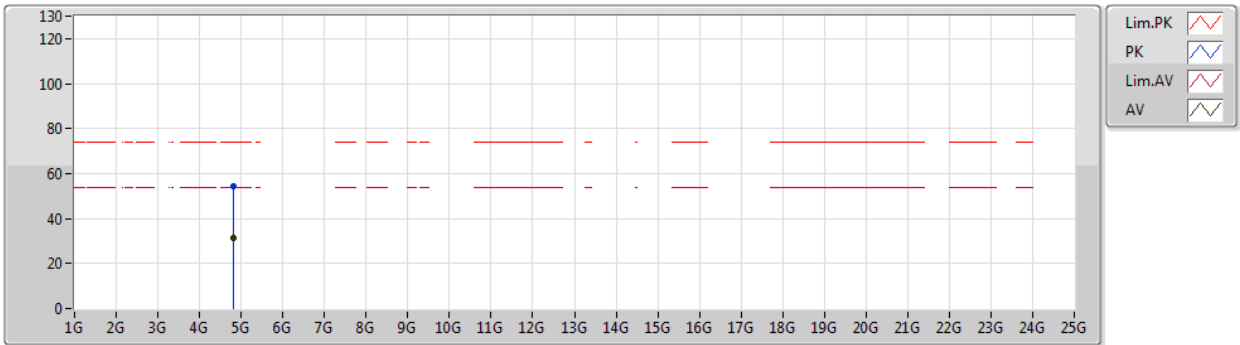


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80388G	28.91	54.00	-25.09	7.89	3	Vertical	102	1.50	-	21.02	31.12	7.30	30.53
PK	4.80388G	51.41	74.00	-22.59	7.89	3	Vertical	102	1.50	-	43.52	31.12	7.30	30.53

BT-BR(1Mbps)

17/07/2020

2402MHz_TX

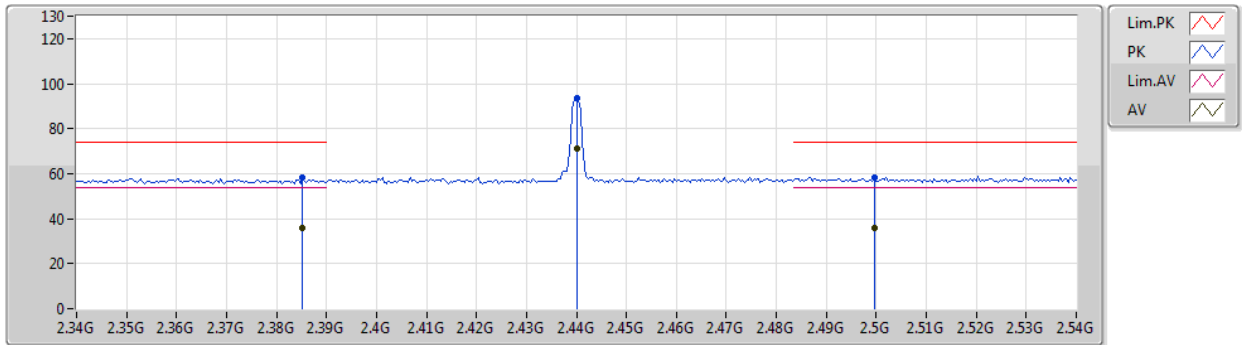


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8043G	31.64	54.00	-22.36	7.89	3	Horizontal	125	1.00	-	23.75	31.12	7.30	30.53
PK	4.8043G	54.14	74.00	-19.86	7.89	3	Horizontal	125	1.00	-	46.25	31.12	7.30	30.53

BT-BR(1Mbps)

2440MHz_TX

17/07/2020

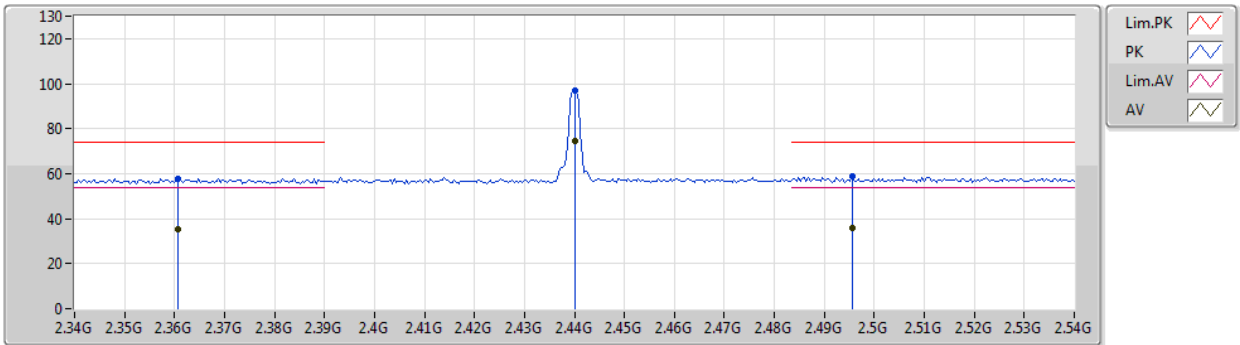


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3852G	36.03	54.00	-17.97	32.73	3	Vertical	86	2.26	-	3.30	27.66	5.07	-
AV	2.44G	70.93	Inf	-Inf	32.76	3	Vertical	86	2.26	-	38.17	27.60	5.16	-
AV	2.4996G	35.87	54.00	-18.13	32.85	3	Vertical	86	2.26	-	3.02	27.60	5.25	-
PK	2.3852G	58.53	74.00	-15.47	32.73	3	Vertical	86	2.26	-	25.80	27.66	5.07	-
PK	2.44G	93.43	Inf	-Inf	32.76	3	Vertical	86	2.26	-	60.67	27.60	5.16	-
PK	2.4996G	58.37	74.00	-15.63	32.85	3	Vertical	86	2.26	-	25.52	27.60	5.25	-

BT-BR(1Mbps)

2440MHz_TX

17/07/2020

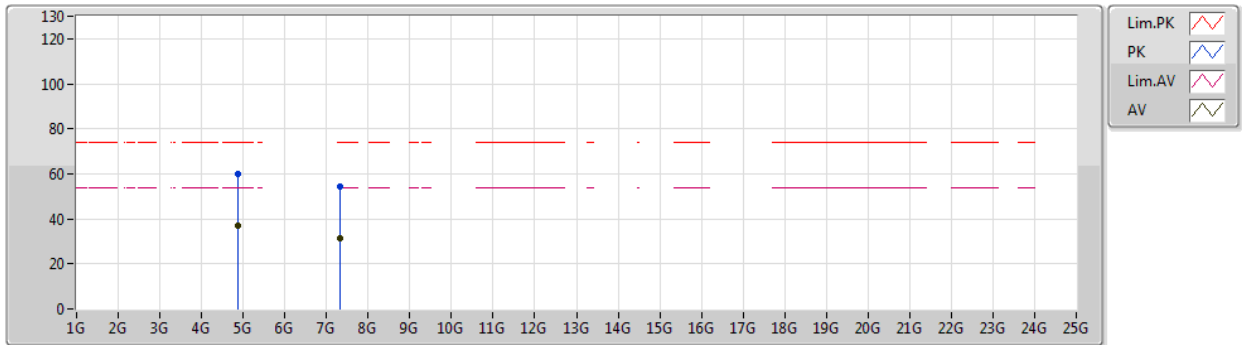


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3608G	35.21	54.00	-18.79	32.78	3	Horizontal	111	1.00	-	2.43	27.76	5.02	-
AV	2.44G	74.69	Inf	-Inf	32.76	3	Horizontal	111	1.00	-	41.93	27.60	5.16	-
AV	2.4956G	36.06	54.00	-17.94	32.84	3	Horizontal	111	1.00	-	3.22	27.60	5.24	-
PK	2.3608G	57.71	74.00	-16.29	32.78	3	Horizontal	111	1.00	-	24.93	27.76	5.02	-
PK	2.44G	97.19	Inf	-Inf	32.76	3	Horizontal	111	1.00	-	64.43	27.60	5.16	-
PK	2.4956G	58.56	74.00	-15.44	32.84	3	Horizontal	111	1.00	-	25.72	27.60	5.24	-

BT-BR(1Mbps)

2440MHz_TX

17/07/2020

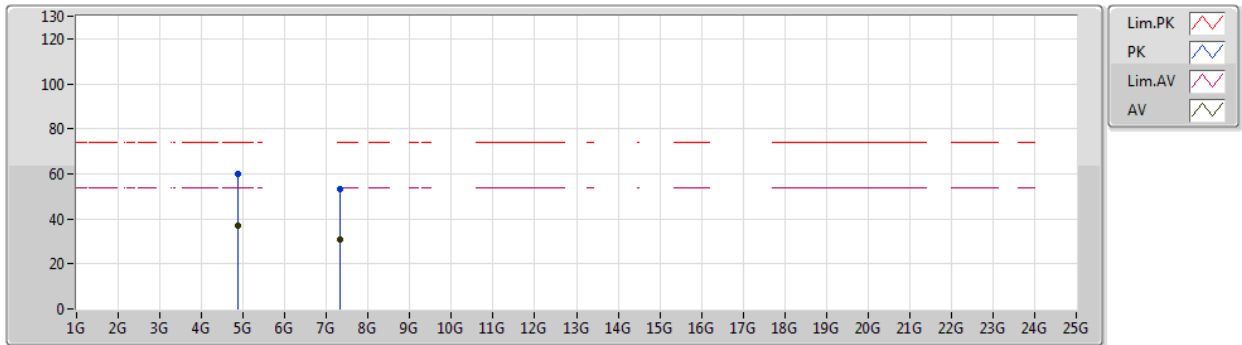


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87957G	37.23	54.00	-16.77	8.08	3	Vertical	99	1.71	-	29.15	31.24	7.38	30.54
AV	7.32032G	31.63	54.00	-22.37	13.84	3	Vertical	102	1.15	-	17.79	36.56	8.60	31.32
PK	4.87957G	59.73	74.00	-14.27	8.08	3	Vertical	99	1.71	-	51.65	31.24	7.38	30.54
PK	7.32032G	54.13	74.00	-19.87	13.84	3	Vertical	102	1.15	-	40.29	36.56	8.60	31.32

BT-BR(1Mbps)

2440MHz_TX

17/07/2020

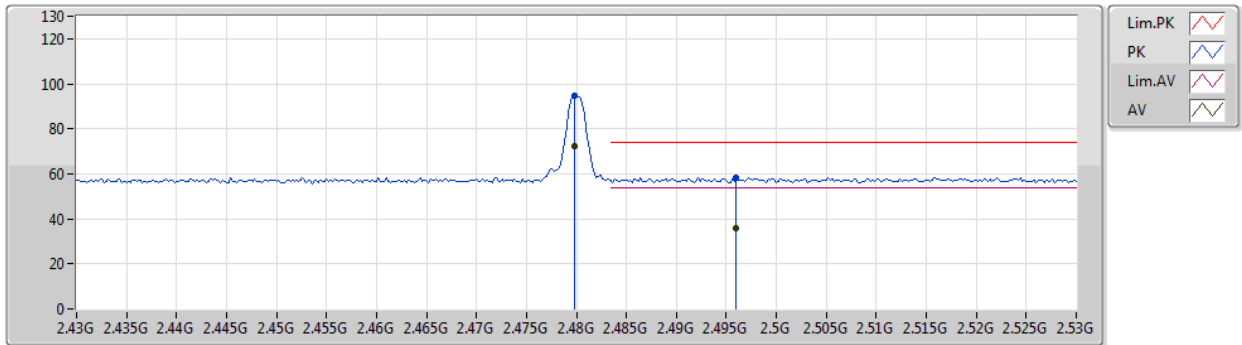


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87964G	37.23	54.00	-16.77	8.08	3	Horizontal	126	1.00	-	29.15	31.24	7.38	30.54
AV	7.32082G	30.59	54.00	-23.41	13.84	3	Horizontal	340	1.00	-	16.75	36.56	8.60	31.32
PK	4.87964G	59.73	74.00	-14.27	8.08	3	Horizontal	126	1.00	-	51.65	31.24	7.38	30.54
PK	7.32082G	53.09	74.00	-20.91	13.84	3	Horizontal	340	1.00	-	39.25	36.56	8.60	31.32

BT-BR(1Mbps)

2480MHz_TX

17/07/2020

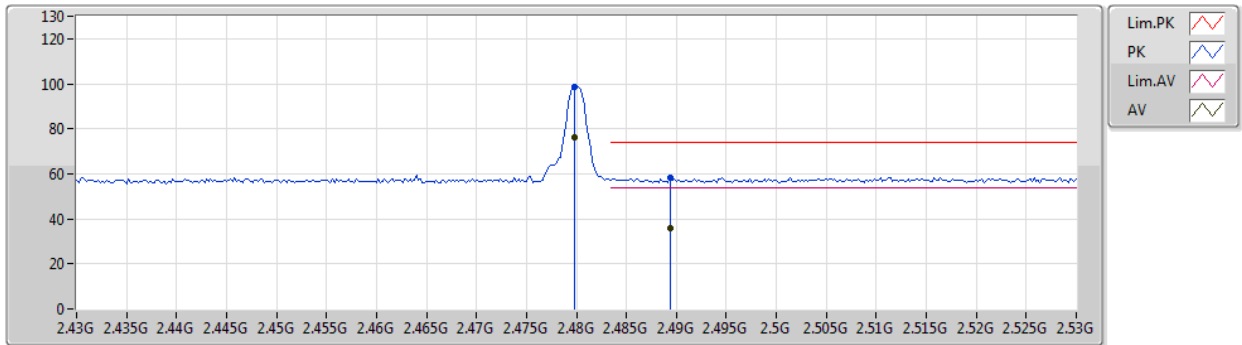


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4798G	72.24	Inf	-Inf	32.82	3	Vertical	86	1.99	-	39.42	27.60	5.22	-
AV	2.496G	35.65	54.00	-18.35	32.84	3	Vertical	86	1.99	-	2.81	27.60	5.24	-
PK	2.4798G	94.74	Inf	-Inf	32.82	3	Vertical	86	1.99	-	61.92	27.60	5.22	-
PK	2.496G	58.15	74.00	-15.85	32.84	3	Vertical	86	1.99	-	25.31	27.60	5.24	-

BT-BR(1Mbps)

2480MHz_TX

17/07/2020

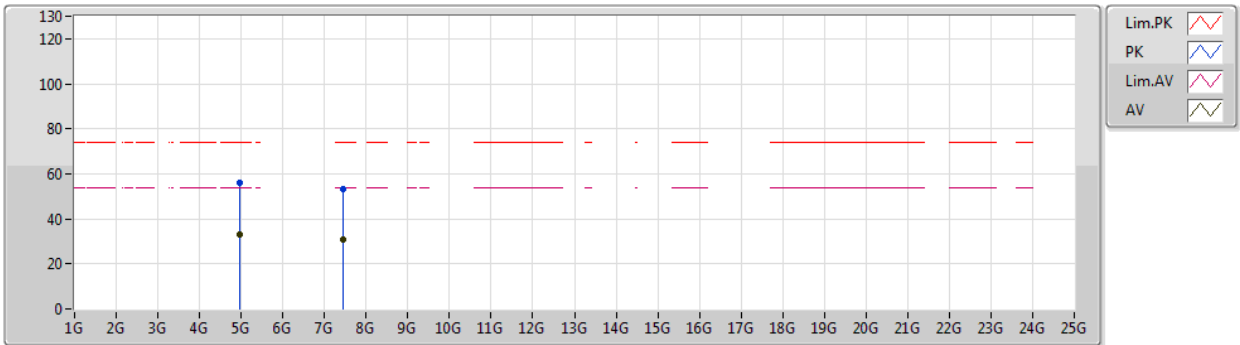


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4798G	76.21	Inf	-Inf	32.82	3	Horizontal	33	1.19	-	43.39	27.60	5.22	-
AV	2.4894G	35.69	54.00	-18.31	32.83	3	Horizontal	33	1.19	-	2.86	27.60	5.23	-
PK	2.4798G	98.71	Inf	-Inf	32.82	3	Horizontal	33	1.19	-	65.89	27.60	5.22	-
PK	2.4894G	58.19	74.00	-15.81	32.83	3	Horizontal	33	1.19	-	25.36	27.60	5.23	-

BT-BR(1Mbps)

2480MHz_TX

17/07/2020

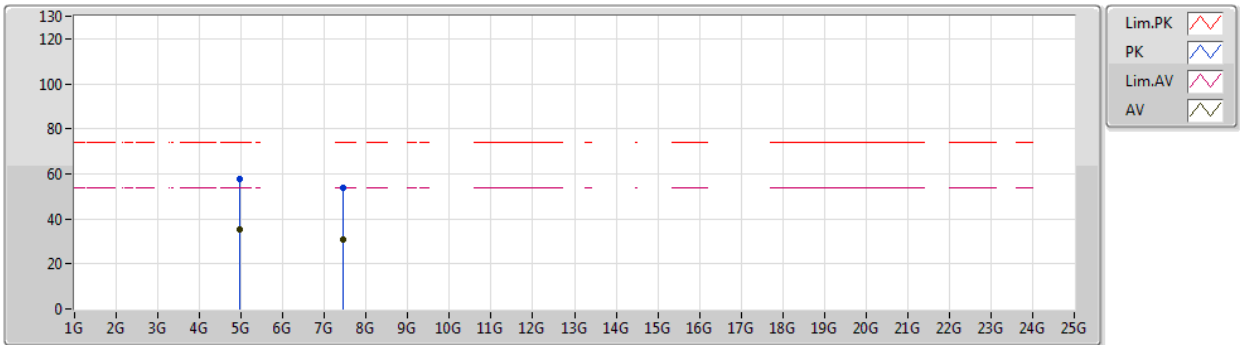


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9596G	33.34	54.00	-20.66	8.33	3	Vertical	100	1.50	-	25.01	31.42	7.46	30.55
AV	7.44042G	30.96	54.00	-23.04	13.84	3	Vertical	105	1.34	-	17.12	36.56	8.60	31.32
PK	4.9596G	55.84	74.00	-18.16	8.33	3	Vertical	100	1.50	-	47.51	31.42	7.46	30.55
PK	7.44042G	53.46	74.00	-20.54	13.84	3	Vertical	105	1.34	-	39.62	36.56	8.60	31.32

BT-BR(1Mbps)

2480MHz_TX

17/07/2020

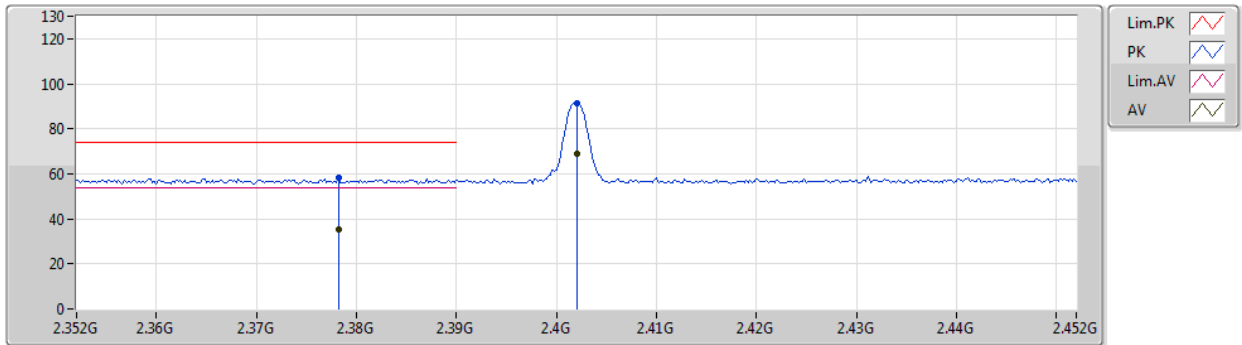


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96021G	35.30	54.00	-18.70	8.33	3	Horizontal	47	1.24	-	26.97	31.42	7.46	30.55
AV	7.44037G	31.05	54.00	-22.95	13.84	3	Horizontal	326	1.02	-	17.21	36.56	8.60	31.32
PK	4.96021G	57.80	74.00	-16.20	8.33	3	Horizontal	47	1.24	-	49.47	31.42	7.46	30.55
PK	7.44037G	53.55	74.00	-20.45	13.84	3	Horizontal	326	1.02	-	39.71	36.56	8.60	31.32

BT-BR3_Nss1_1TX

17/07/2020

2402MHz_TX

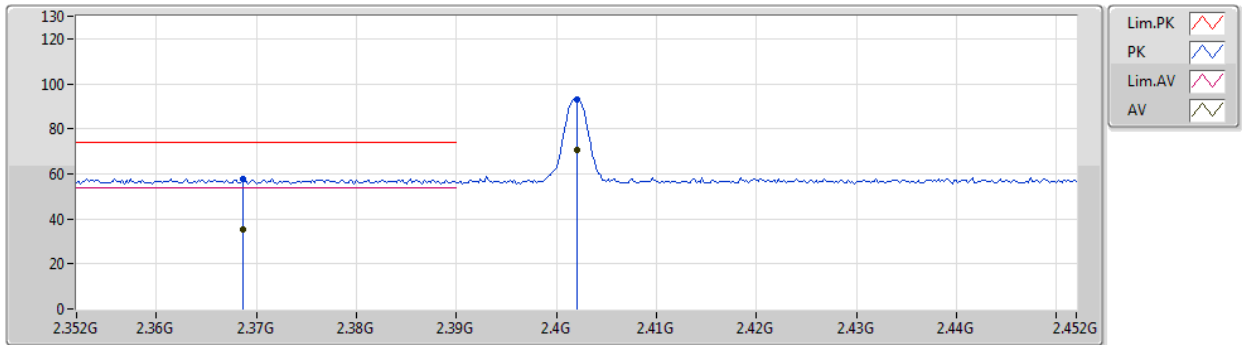


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3782G	35.57	54.00	-18.43	32.75	3	Vertical	84	3.00	-	2.82	27.69	5.06	-
AV	2.402G	69.01	Inf	-Inf	32.70	3	Vertical	84	3.00	-	36.31	27.60	5.10	-
PK	2.3782G	58.07	74.00	-15.93	32.75	3	Vertical	84	3.00	-	25.32	27.69	5.06	-
PK	2.402G	91.51	Inf	-Inf	32.70	3	Vertical	84	3.00	-	58.81	27.60	5.10	-

BT-BR3_Nss1_1TX

17/07/2020

2402MHz_TX

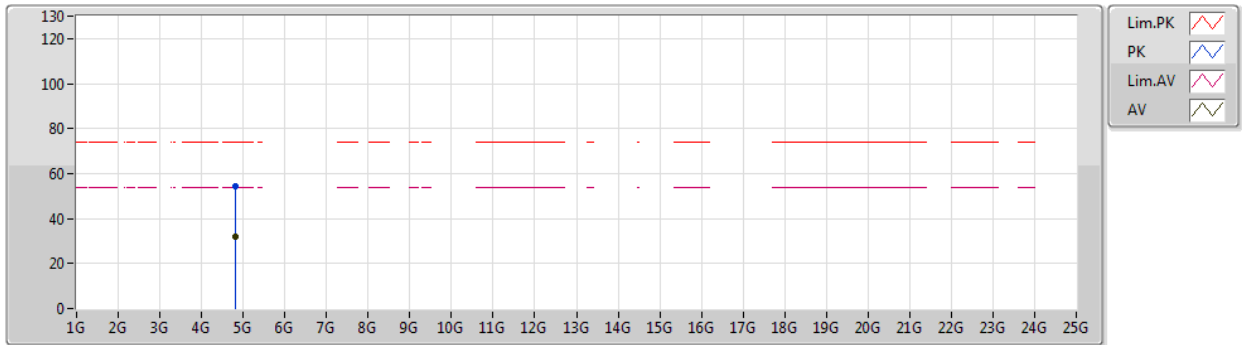


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3686G	35.45	54.00	-18.55	32.77	3	Horizontal	80	1.36	-	2.68	27.73	5.04	-
AV	2.402G	70.44	Inf	-Inf	32.70	3	Horizontal	80	1.36	-	37.74	27.60	5.10	-
PK	2.3686G	57.95	74.00	-16.05	32.77	3	Horizontal	80	1.36	-	25.18	27.73	5.04	-
PK	2.402G	92.94	Inf	-Inf	32.70	3	Horizontal	80	1.36	-	60.24	27.60	5.10	-

BT-BR3_Nss1_1TX

17/07/2020

2402MHz_TX

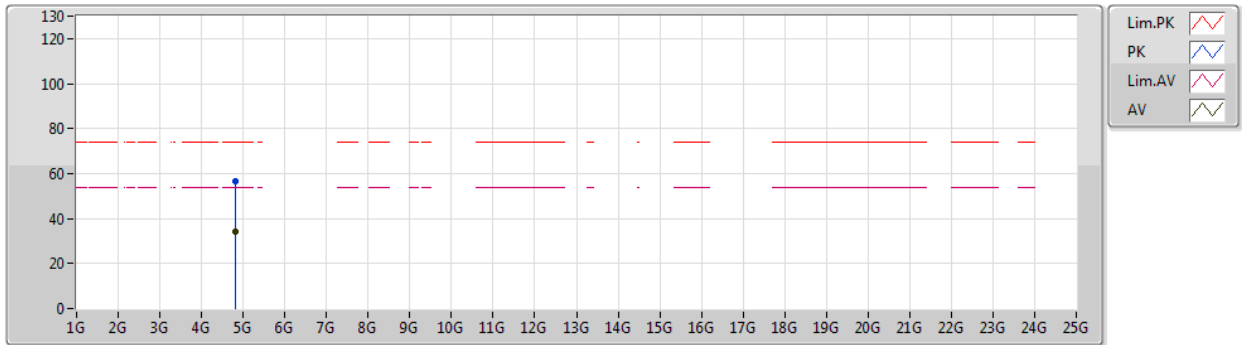


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80381G	31.74	54.00	-22.26	7.89	3	Vertical	101	1.50	-	23.85	31.12	7.30	30.53
PK	4.80381G	54.24	74.00	-19.76	7.89	3	Vertical	101	1.50	-	46.35	31.12	7.30	30.53

BT-BR3_Nss1_1TX

17/07/2020

2402MHz_TX

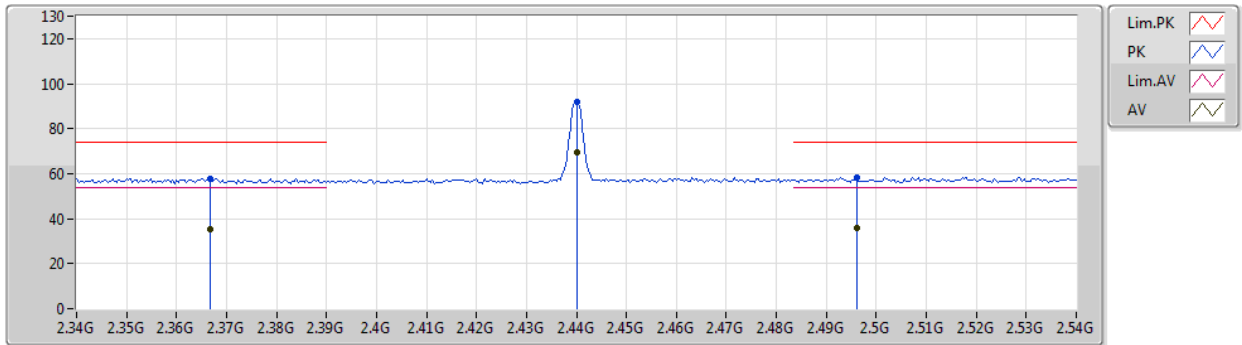


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80399G	33.99	54.00	-20.01	7.89	3	Horizontal	125	1.00	-	26.10	31.12	7.30	30.53
PK	4.80399G	56.49	74.00	-17.51	7.89	3	Horizontal	125	1.00	-	48.60	31.12	7.30	30.53

BT-BR3_Nss1_1TX

17/07/2020

2440MHz_TX

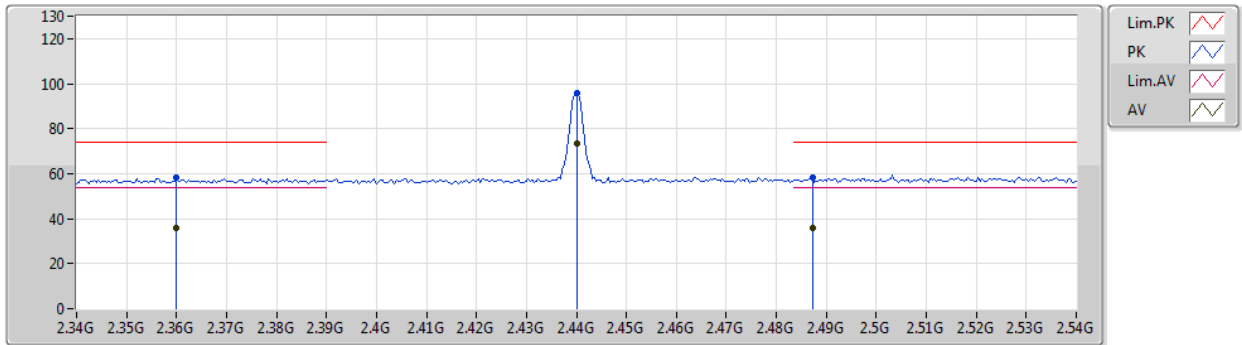


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3668G	35.28	54.00	-18.72	32.76	3	Vertical	85	2.88	-	2.52	27.73	5.03	-
AV	2.44G	69.65	Inf	-Inf	32.76	3	Vertical	85	2.88	-	36.89	27.60	5.16	-
AV	2.496G	35.90	54.00	-18.10	32.84	3	Vertical	85	2.88	-	3.06	27.60	5.24	-
PK	2.3668G	57.78	74.00	-16.22	32.76	3	Vertical	85	2.88	-	25.02	27.73	5.03	-
PK	2.44G	92.15	Inf	-Inf	32.76	3	Vertical	85	2.88	-	59.39	27.60	5.16	-
PK	2.496G	58.40	74.00	-15.60	32.84	3	Vertical	85	2.88	-	25.56	27.60	5.24	-

BT-BR3_Nss1_1TX

17/07/2020

2440MHz_TX

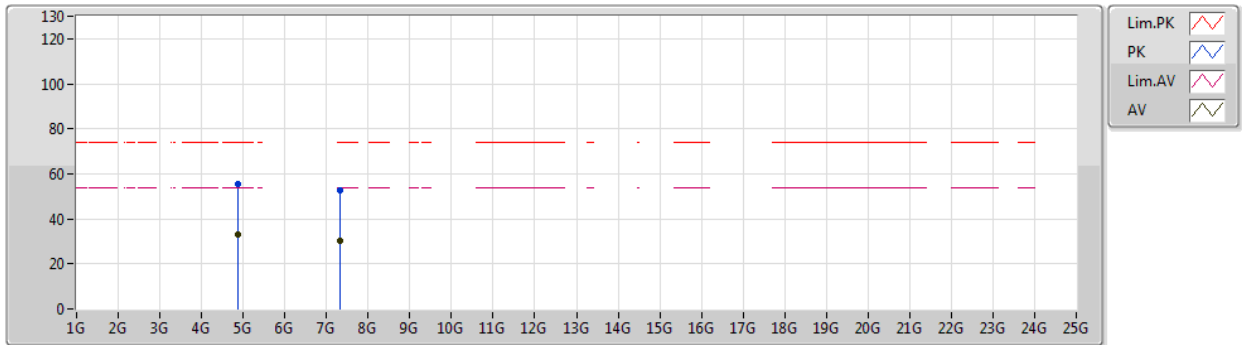


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.36G	35.59	54.00	-18.41	32.78	3	Horizontal	111	1.00	-	2.81	27.76	5.02	-
AV	2.44G	73.23	Inf	-Inf	32.76	3	Horizontal	111	1.00	-	40.47	27.60	5.16	-
AV	2.4872G	35.64	54.00	-18.36	32.83	3	Horizontal	111	1.00	-	2.81	27.60	5.23	-
PK	2.36G	58.09	74.00	-15.91	32.78	3	Horizontal	111	1.00	-	25.31	27.76	5.02	-
PK	2.44G	95.73	Inf	-Inf	32.76	3	Horizontal	111	1.00	-	62.97	27.60	5.16	-
PK	2.4872G	58.14	74.00	-15.86	32.83	3	Horizontal	111	1.00	-	25.31	27.60	5.23	-

BT-BR3_Nss1_1TX

17/07/2020

2440MHz_TX

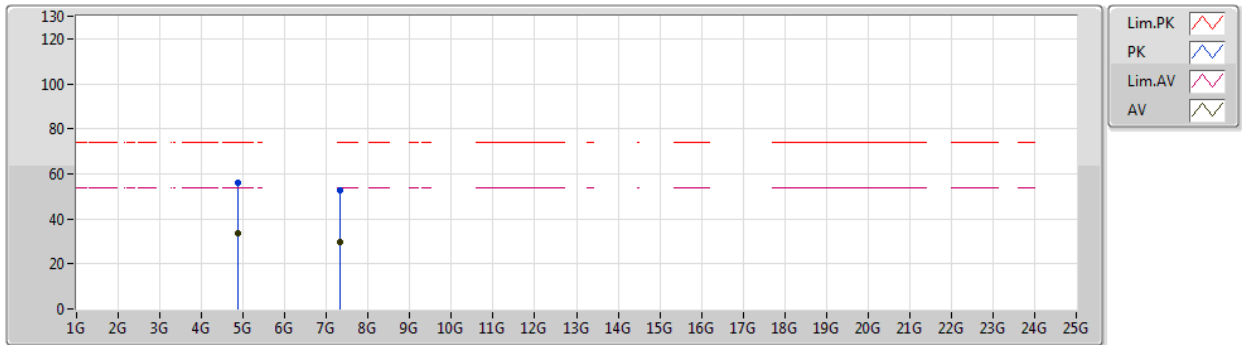


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8799G	32.98	54.00	-21.02	8.08	3	Vertical	99	1.72	-	24.90	31.24	7.38	30.54
AV	7.32G	30.24	54.00	-23.76	13.84	3	Vertical	75	2.87	-	16.40	36.56	8.60	31.32
PK	4.8799G	55.48	74.00	-18.52	8.08	3	Vertical	99	1.72	-	47.40	31.24	7.38	30.54
PK	7.32G	52.74	74.00	-21.26	13.84	3	Vertical	75	2.87	-	38.90	36.56	8.60	31.32

BT-BR3_Nss1_1TX

17/07/2020

2440MHz_TX

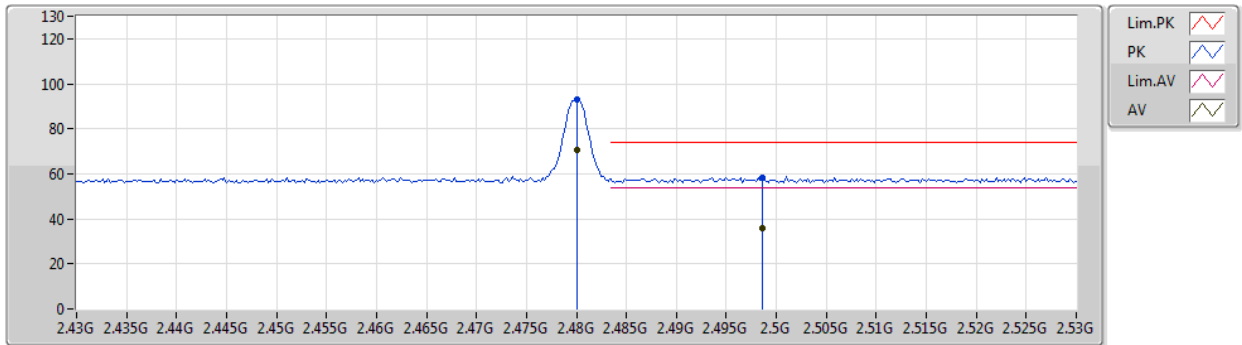


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88007G	33.57	54.00	-20.43	8.08	3	Horizontal	126	1.00	-	25.49	31.24	7.38	30.54
AV	7.31924G	29.91	54.00	-24.09	13.84	3	Horizontal	270	1.90	-	16.07	36.56	8.60	31.32
PK	4.88007G	56.07	74.00	-17.93	8.08	3	Horizontal	126	1.00	-	47.99	31.24	7.38	30.54
PK	7.31924G	52.41	74.00	-21.59	13.84	3	Horizontal	270	1.90	-	38.57	36.56	8.60	31.32

BT-BR3_Nss1_1TX

17/07/2020

2480MHz_TX

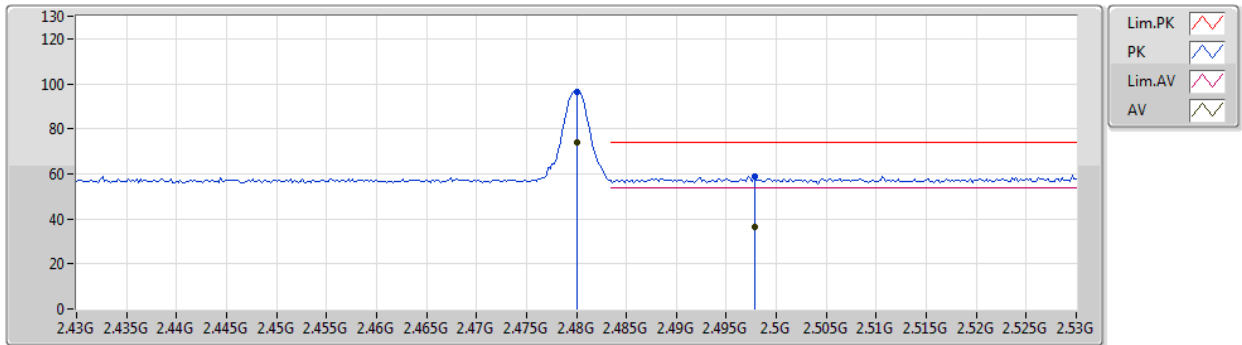


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	70.36	Inf	-Inf	32.82	3	Vertical	87	1.98	-	37.54	27.60	5.22	-
AV	2.4986G	35.93	54.00	-18.07	32.85	3	Vertical	87	1.98	-	3.08	27.60	5.25	-
PK	2.48G	92.86	Inf	-Inf	32.82	3	Vertical	87	1.98	-	60.04	27.60	5.22	-
PK	2.4986G	58.43	74.00	-15.57	32.85	3	Vertical	87	1.98	-	25.58	27.60	5.25	-

BT-BR3_Nss1_1TX

17/07/2020

2480MHz_TX

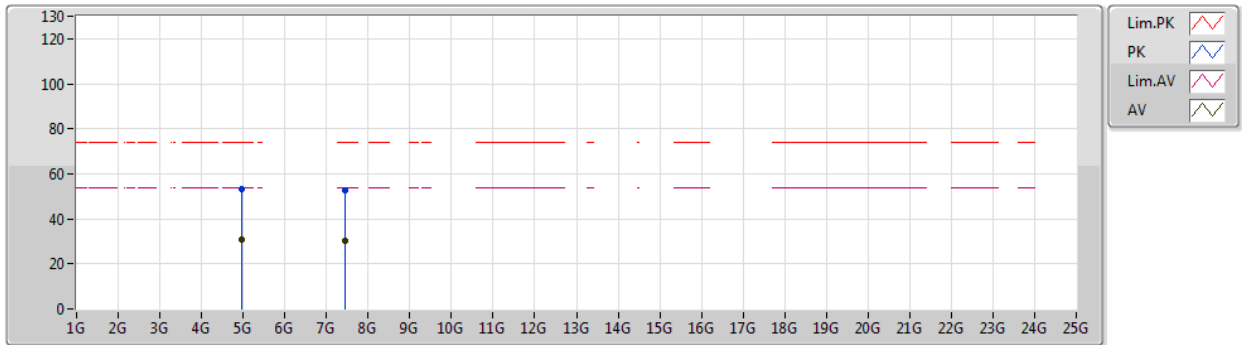


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	74.10	Inf	-Inf	32.82	3	Horizontal	33	1.42	-	41.28	27.60	5.22	-
AV	2.4978G	36.38	54.00	-17.62	32.85	3	Horizontal	33	1.42	-	3.53	27.60	5.25	-
PK	2.48G	96.60	Inf	-Inf	32.82	3	Horizontal	33	1.42	-	63.78	27.60	5.22	-
PK	2.4978G	58.88	74.00	-15.12	32.85	3	Horizontal	33	1.42	-	26.03	27.60	5.25	-

BT-BR3_Nss1_1TX

17/07/2020

2480MHz_TX

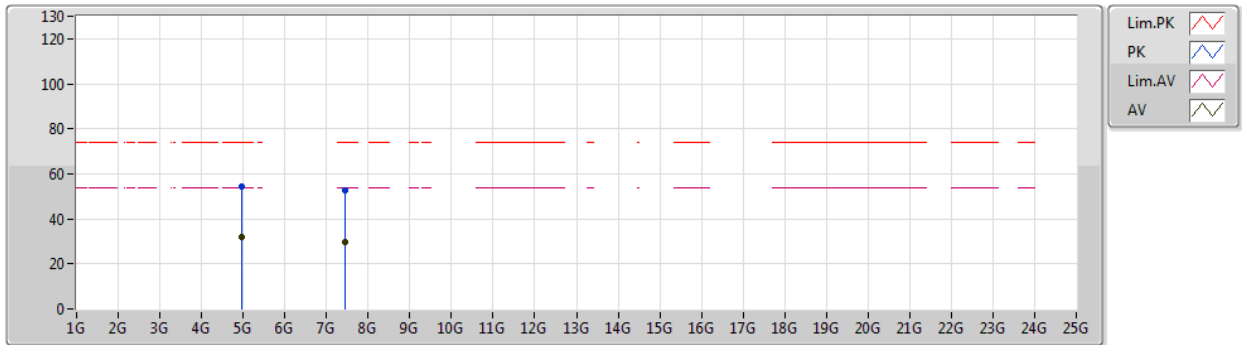


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9603G	30.61	54.00	-23.39	8.33	3	Vertical	99	1.16	-	22.28	31.42	7.46	30.55
AV	7.44906G	30.26	54.00	-23.74	13.88	3	Vertical	352	3.00	-	16.38	36.60	8.60	31.32
PK	4.9603G	53.11	74.00	-20.89	8.33	3	Vertical	99	1.16	-	44.78	31.42	7.46	30.55
PK	7.44906G	52.76	74.00	-21.24	13.88	3	Vertical	352	3.00	-	38.88	36.60	8.60	31.32

BT-BR3_Nss1_1TX

17/07/2020

2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95958G	32.02	54.00	-21.98	8.33	3	Horizontal	45	1.50	-	23.69	31.42	7.46	30.55
AV	7.4535G	29.95	54.00	-24.05	13.88	3	Horizontal	75	1.50	-	16.07	36.60	8.60	31.32
PK	4.95958G	54.52	74.00	-19.48	8.33	3	Horizontal	45	1.50	-	46.19	31.42	7.46	30.55
PK	7.4535G	52.45	74.00	-21.55	13.88	3	Horizontal	75	1.50	-	38.57	36.60	8.60	31.32



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	PK	507.24M	42.46	46.00	-3.54	3	Horizontal	0	1.00	-

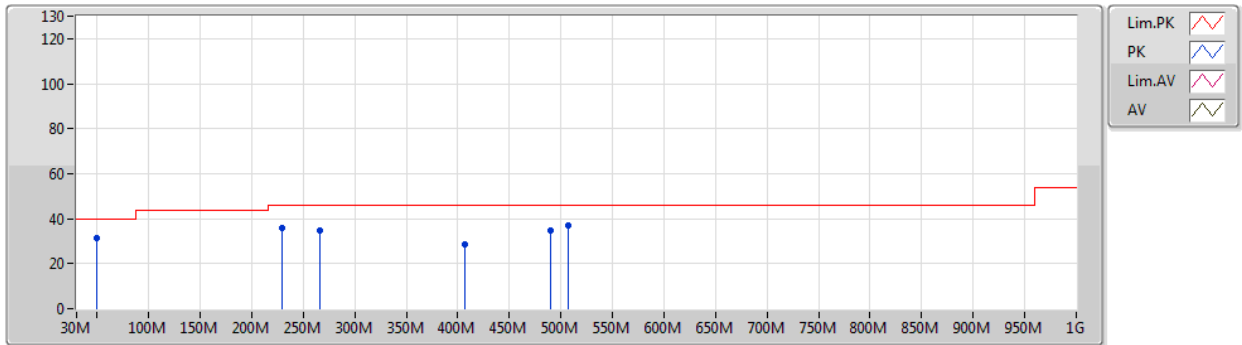
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz_Adapter	Pass	PK	49.4M	31.43	40.00	-8.57	3	Vertical	360	1.00	-
2440MHz_Adapter	Pass	PK	229.82M	36.09	46.00	-9.91	3	Vertical	360	1.00	-
2440MHz_Adapter	Pass	PK	266.68M	34.94	46.00	-11.06	3	Vertical	360	1.00	-
2440MHz_Adapter	Pass	PK	406.36M	28.32	46.00	-17.68	3	Vertical	360	1.00	-
2440MHz_Adapter	Pass	PK	489.78M	34.73	46.00	-11.27	3	Vertical	360	1.00	-
2440MHz_Adapter	Pass	PK	507.24M	37.09	46.00	-8.91	3	Vertical	360	1.00	-
2440MHz_Adapter	Pass	PK	70.74M	31.54	40.00	-8.46	3	Horizontal	0	1.00	-
2440MHz_Adapter	Pass	PK	212.36M	22.30	43.50	-21.20	3	Horizontal	0	1.00	-
2440MHz_Adapter	Pass	PK	295.78M	28.93	46.00	-17.07	3	Horizontal	0	1.00	-
2440MHz_Adapter	Pass	PK	367.56M	34.25	46.00	-11.75	3	Horizontal	0	1.00	-
2440MHz_Adapter	Pass	PK	443.22M	36.09	46.00	-9.91	3	Horizontal	0	1.00	-
2440MHz_Adapter	Pass	PK	507.24M	42.46	46.00	-3.54	3	Horizontal	0	1.00	-
2440MHz_USB	Pass	PK	64.92M	28.30	40.00	-11.70	3	Vertical	0	1.00	-
2440MHz_USB	Pass	PK	258.92M	39.41	46.00	-6.59	3	Vertical	0	1.00	-
2440MHz_USB	Pass	PK	288.02M	38.37	46.00	-7.63	3	Vertical	0	1.00	-
2440MHz_USB	Pass	PK	445.16M	36.00	46.00	-10.00	3	Vertical	0	1.00	-
2440MHz_USB	Pass	PK	507.24M	37.21	46.00	-8.79	3	Vertical	0	1.00	-
2440MHz_USB	Pass	PK	759.44M	32.35	46.00	-13.65	3	Vertical	0	1.00	-
2440MHz_USB	Pass	PK	99.84M	36.89	43.50	-6.61	3	Horizontal	360	1.00	-
2440MHz_USB	Pass	PK	212.36M	36.05	43.50	-7.45	3	Horizontal	360	1.00	-
2440MHz_USB	Pass	PK	276.38M	41.35	46.00	-4.65	3	Horizontal	360	1.00	-
2440MHz_USB	Pass	PK	367.56M	38.61	46.00	-7.39	3	Horizontal	360	1.00	-
2440MHz_USB	Pass	PK	507.24M	34.29	46.00	-11.71	3	Horizontal	360	1.00	-
2440MHz_USB	Pass	PK	567.38M	35.95	46.00	-10.05	3	Horizontal	360	1.00	-

BT-BR(1Mbps)RX

2440MHz_Adapter

20/07/2020

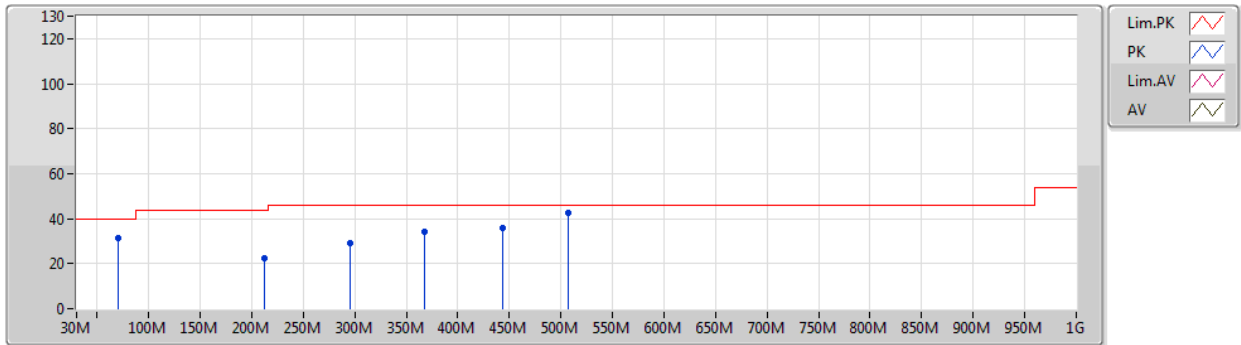


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	49.4M	31.43	40.00	-8.57	-22.76	3	Vertical	360	1.00	-	54.19	13.72	0.50	36.98
PK	229.82M	36.09	46.00	-9.91	-19.87	3	Vertical	360	1.00	-	55.96	15.24	1.22	36.33
PK	266.68M	34.94	46.00	-11.06	-16.10	3	Vertical	360	1.00	-	51.04	18.97	1.33	36.40
PK	406.36M	28.32	46.00	-17.68	-13.54	3	Vertical	360	1.00	-	41.86	21.19	1.71	36.44
PK	489.78M	34.73	46.00	-11.27	-12.21	3	Vertical	360	1.00	-	46.94	22.83	1.88	36.92
PK	507.24M	37.09	46.00	-8.91	-12.08	3	Vertical	360	1.00	-	49.17	23.02	1.91	37.01

BT-BR(1Mbps)RX

2440MHz_Adapter

20/07/2020

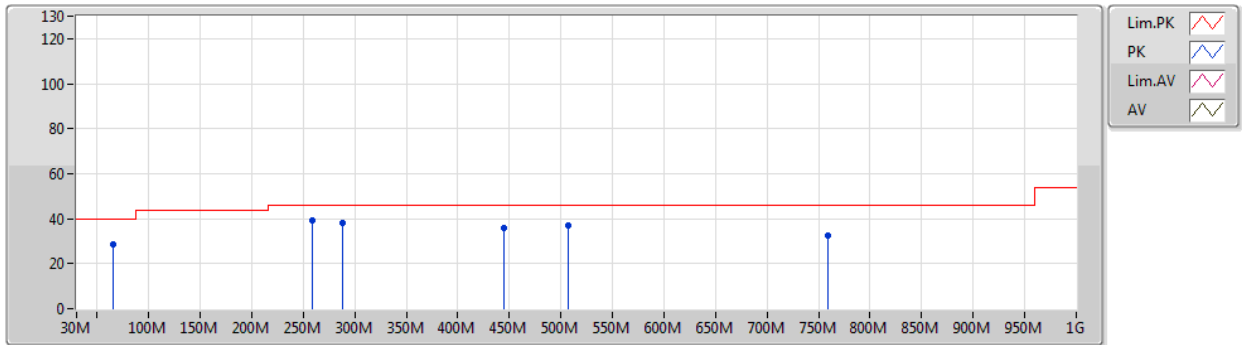


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	70.74M	31.54	40.00	-8.46	-24.88	3	Horizontal	0	1.00	-	56.42	11.36	0.61	36.85
PK	212.36M	22.30	43.50	-21.20	-21.02	3	Horizontal	0	1.00	-	43.32	14.07	1.15	36.24
PK	295.78M	28.93	46.00	-17.07	-16.75	3	Horizontal	0	1.00	-	45.68	18.22	1.39	36.36
PK	367.56M	34.25	46.00	-11.75	-15.11	3	Horizontal	0	1.00	-	49.36	19.79	1.57	36.47
PK	443.22M	36.09	46.00	-9.91	-12.76	3	Horizontal	0	1.00	-	48.85	22.03	1.79	36.58
PK	507.24M	42.46	46.00	-3.54	-12.08	3	Horizontal	0	1.00	-	54.54	23.02	1.91	37.01

BT-BR(1Mbps)RX

2440MHz_USB

20/07/2020

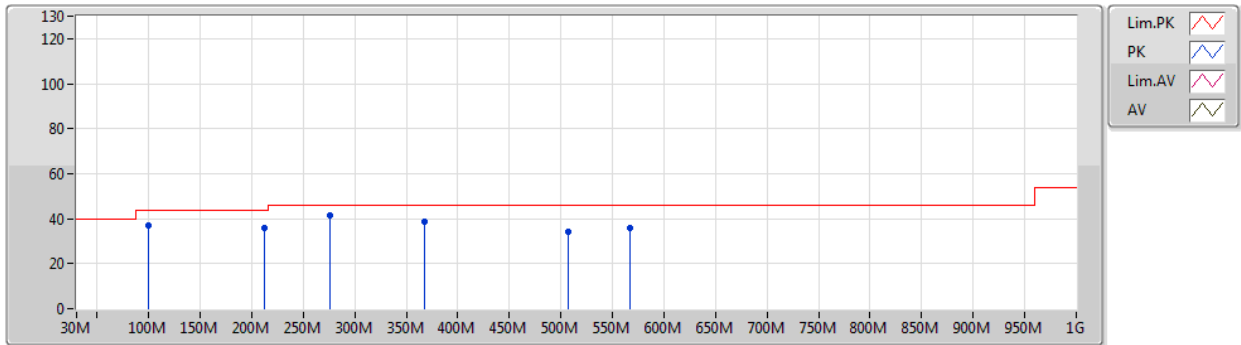


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	64.92M	28.30	40.00	-11.70	-25.41	3	Vertical	0	1.00	-	53.71	10.92	0.60	36.93
PK	258.92M	39.41	46.00	-6.59	-16.05	3	Vertical	0	1.00	-	55.46	19.05	1.32	36.42
PK	288.02M	38.37	46.00	-7.63	-16.90	3	Vertical	0	1.00	-	55.27	18.09	1.38	36.37
PK	445.16M	36.00	46.00	-10.00	-12.74	3	Vertical	0	1.00	-	48.74	22.06	1.79	36.59
PK	507.24M	37.21	46.00	-8.79	-12.08	3	Vertical	0	1.00	-	49.29	23.02	1.91	37.01
PK	759.44M	32.35	46.00	-13.65	-7.67	3	Vertical	0	1.00	-	40.02	27.07	2.52	37.26

BT-BR(1Mbps)RX

2440MHz_USB

20/07/2020



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	99.84M	36.89	43.50	-6.61	-20.78	3	Horizontal	360	1.00	-	57.67	14.98	0.80	36.56
PK	212.36M	36.05	43.50	-7.45	-21.02	3	Horizontal	360	1.00	-	57.07	14.07	1.15	36.24
PK	276.38M	41.35	46.00	-4.65	-17.18	3	Horizontal	360	1.00	-	58.53	17.86	1.35	36.39
PK	367.56M	38.61	46.00	-7.39	-15.11	3	Horizontal	360	1.00	-	53.72	19.79	1.57	36.47
PK	507.24M	34.29	46.00	-11.71	-12.08	3	Horizontal	360	1.00	-	46.37	23.02	1.91	37.01
PK	567.38M	35.95	46.00	-10.05	-9.89	3	Horizontal	360	1.00	-	45.84	25.15	2.07	37.11



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	AV	7.36G	39.90	54.00	-14.10	3	Horizontal	360	1.00	-

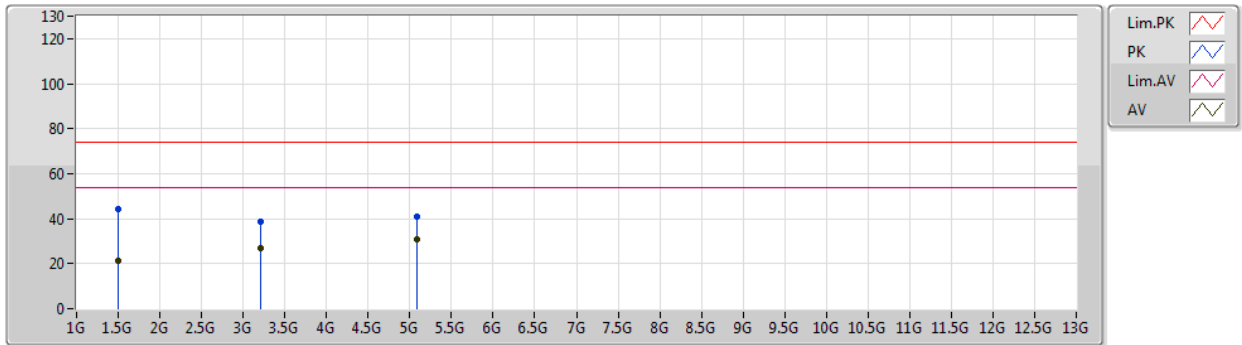
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz_RX	Pass	AV	1.504G	21.43	54.00	-32.57	3	Vertical	0	1.00	-
2440MHz_RX	Pass	AV	3.208G	26.90	54.00	-27.10	3	Vertical	0	1.00	-
2440MHz_RX	Pass	AV	5.08G	30.79	54.00	-23.21	3	Vertical	0	1.00	-
2440MHz_RX	Pass	PK	1.504G	44.24	74.00	-29.76	3	Vertical	0	1.00	-
2440MHz_RX	Pass	PK	3.208G	38.55	74.00	-35.45	3	Vertical	0	1.00	-
2440MHz_RX	Pass	PK	5.08G	40.94	74.00	-33.06	3	Vertical	0	1.00	-
2440MHz_RX	Pass	AV	4.216G	32.44	54.00	-21.56	3	Horizontal	360	1.00	-
2440MHz_RX	Pass	AV	6.328G	36.17	54.00	-17.83	3	Horizontal	360	1.00	-
2440MHz_RX	Pass	AV	7.36G	39.90	54.00	-14.10	3	Horizontal	360	1.00	-
2440MHz_RX	Pass	PK	4.216G	46.14	74.00	-27.86	3	Horizontal	360	1.00	-
2440MHz_RX	Pass	PK	6.328G	49.46	74.00	-24.54	3	Horizontal	360	1.00	-
2440MHz_RX	Pass	PK	7.36G	52.70	74.00	-21.30	3	Horizontal	360	1.00	-

BT-BR(1Mbps)RX

20/07/2020

2440MHz_RX

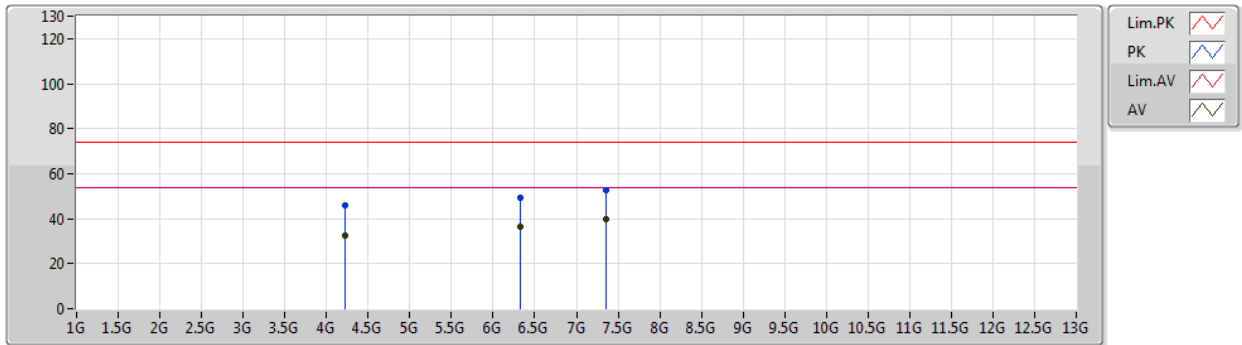


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	1.504G	21.43	54.00	-32.57	-2.55	3	Vertical	0	1.00	-	23.98	25.48	4.00	32.03
AV	3.208G	26.90	54.00	-27.10	4.23	3	Vertical	0	1.00	-	22.67	28.95	6.21	30.93
AV	5.08G	30.79	54.00	-23.21	8.91	3	Vertical	0	1.00	-	21.88	31.92	7.54	30.55
PK	1.504G	44.24	74.00	-29.76	-2.55	3	Vertical	0	1.00	-	46.79	25.48	4.00	32.03
PK	3.208G	38.55	74.00	-35.45	4.23	3	Vertical	0	1.00	-	34.32	28.95	6.21	30.93
PK	5.08G	40.94	74.00	-33.06	8.91	3	Vertical	0	1.00	-	32.03	31.92	7.54	30.55

BT-BR(1Mbps)RX

2440MHz_RX

20/07/2020



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.216G	32.44	54.00	-21.56	6.23	3	Horizontal	360	1.00	-	26.21	29.84	7.01	30.62
AV	6.328G	36.17	54.00	-17.83	10.60	3	Horizontal	360	1.00	-	25.57	33.42	8.10	30.92
AV	7.36G	39.90	54.00	-14.10	13.79	3	Horizontal	360	1.00	-	26.11	36.51	8.60	31.32
PK	4.216G	46.14	74.00	-27.86	6.21	3	Horizontal	360	1.00	-	39.93	29.83	7.01	30.63
PK	6.328G	49.46	74.00	-24.54	10.51	3	Horizontal	360	1.00	-	38.95	33.31	8.10	30.90
PK	7.36G	52.70	74.00	-21.30	13.76	3	Horizontal	360	1.00	-	38.94	36.48	8.60	31.32

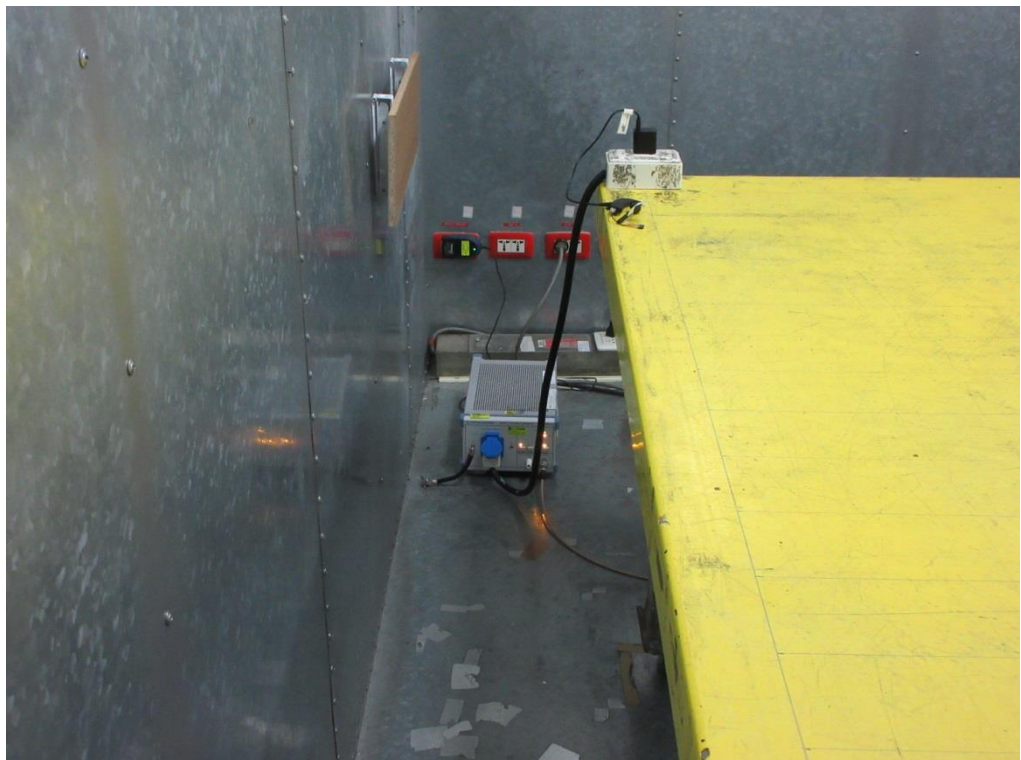
1. Photographs of Conducted Emissions Test Configuration

Adapter mode

Front view



Side view



Under table view

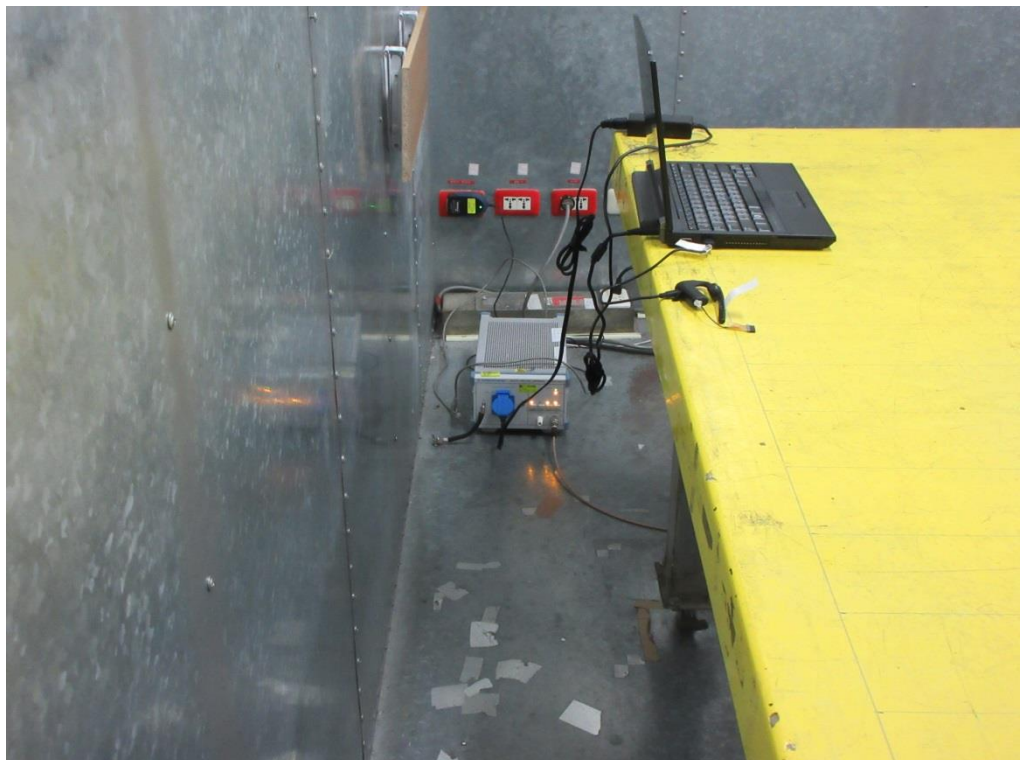


USB mode; TX

Front view



Side view



Under table view

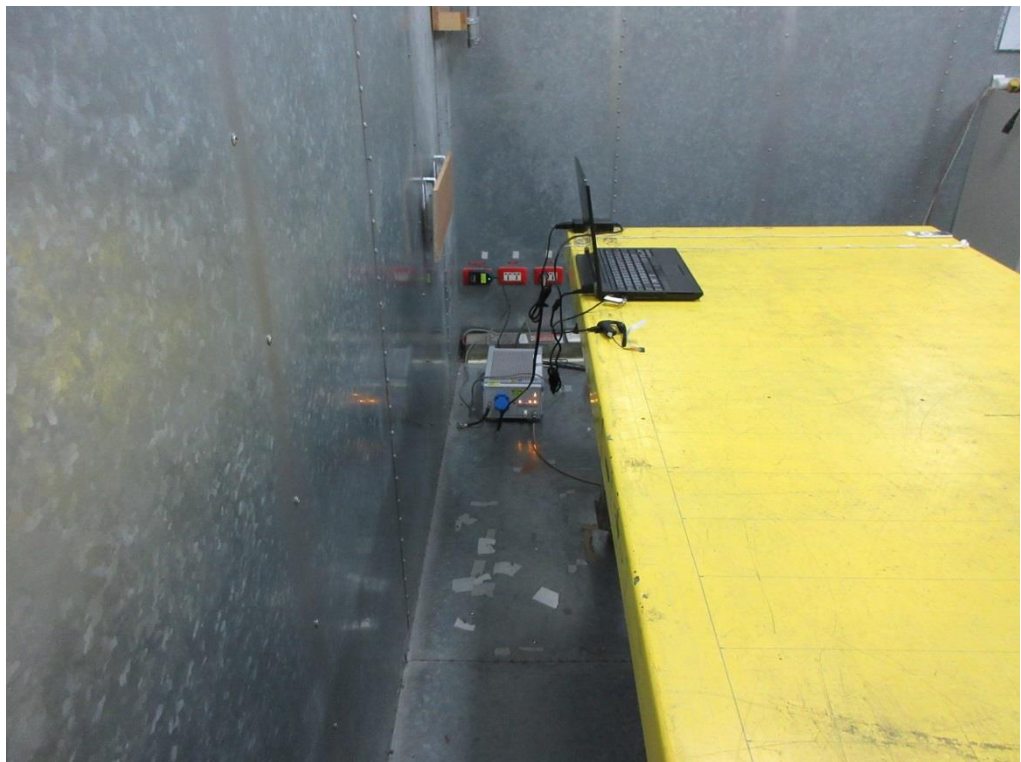


USB mode; RX

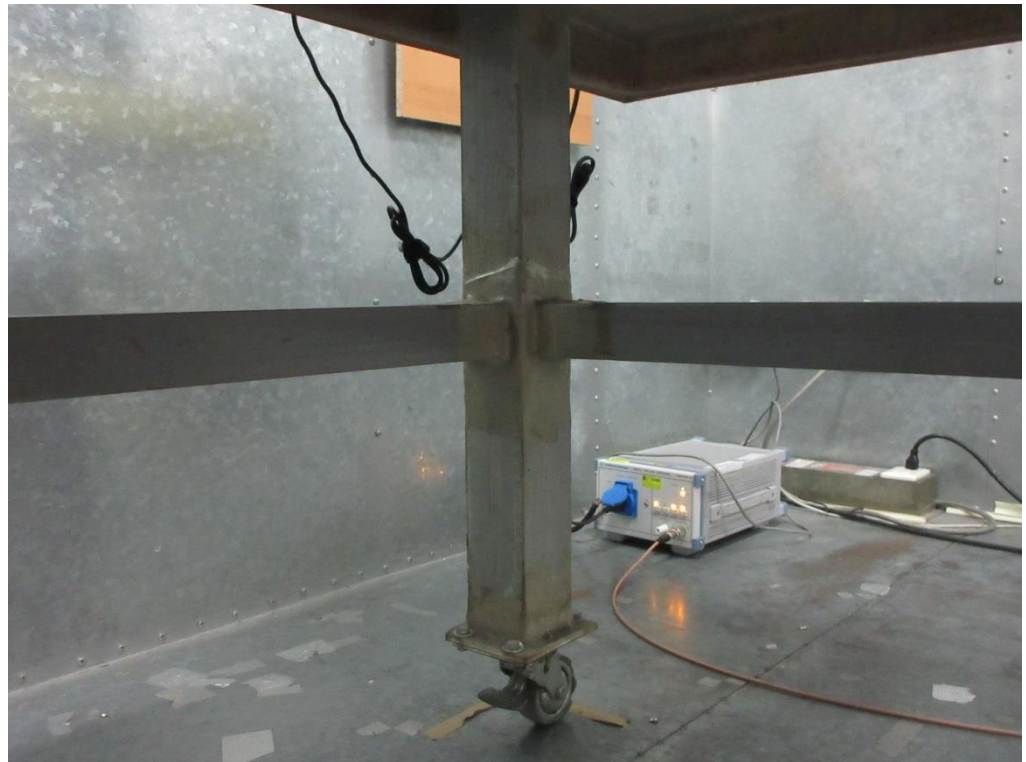
Front view



Side view



Under table view

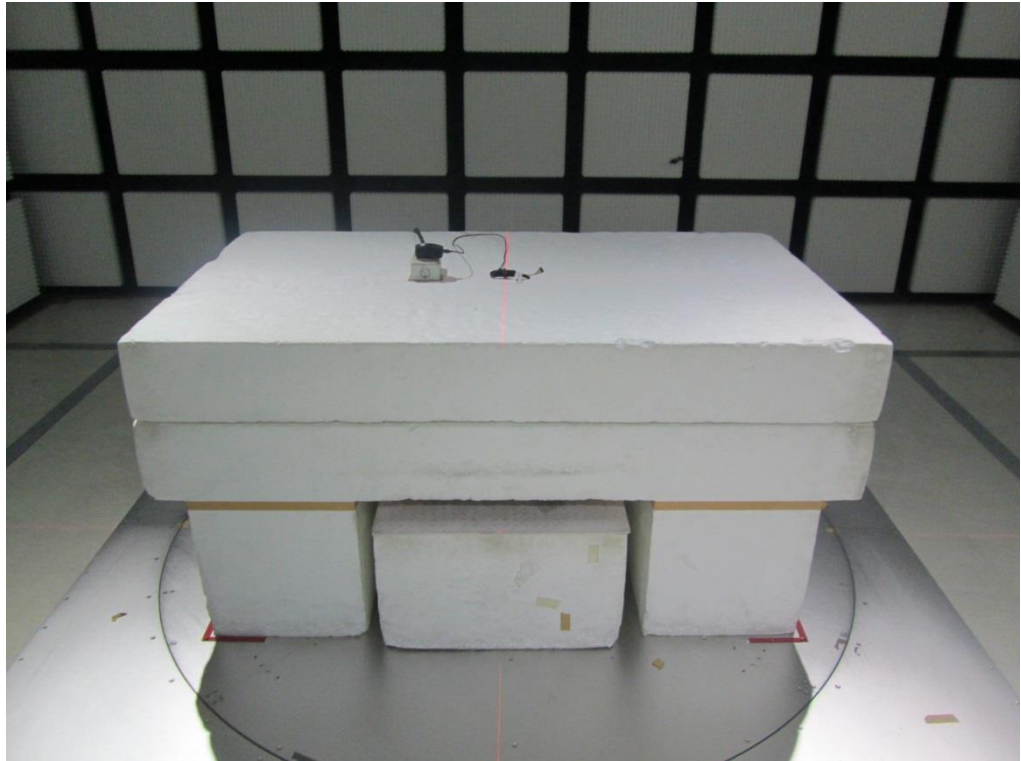


2. Photographs of Radiated Emissions Test Configuration

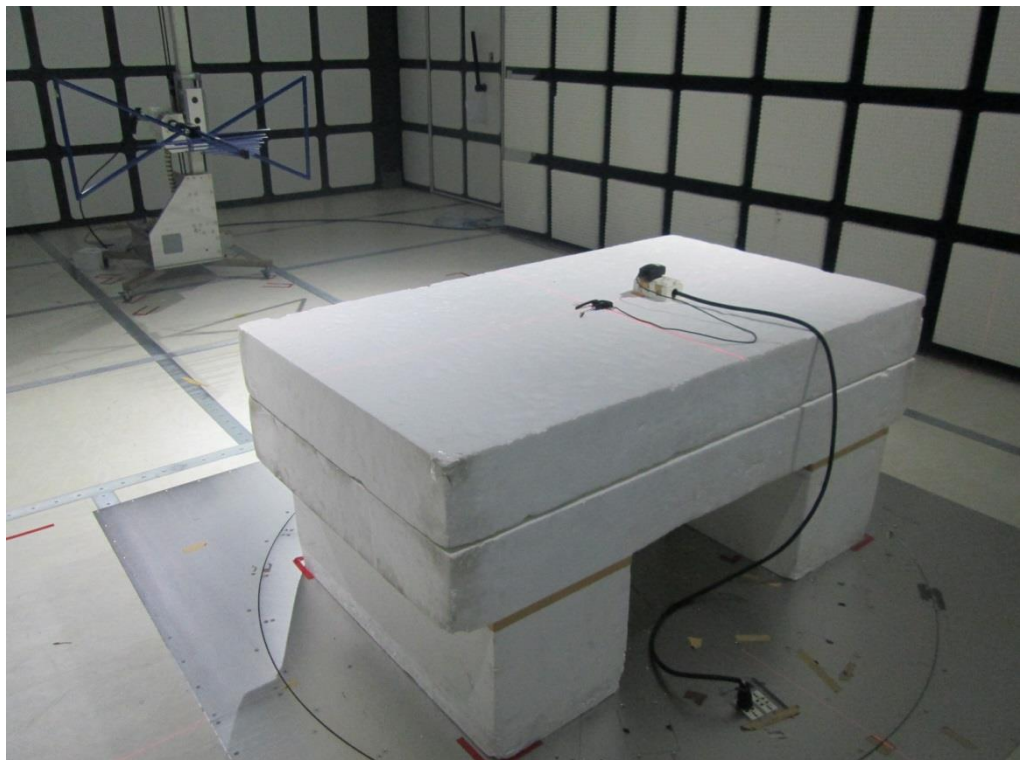
For radiated emissions 30MHz~1GHz

Adapter mode; TX

Front view

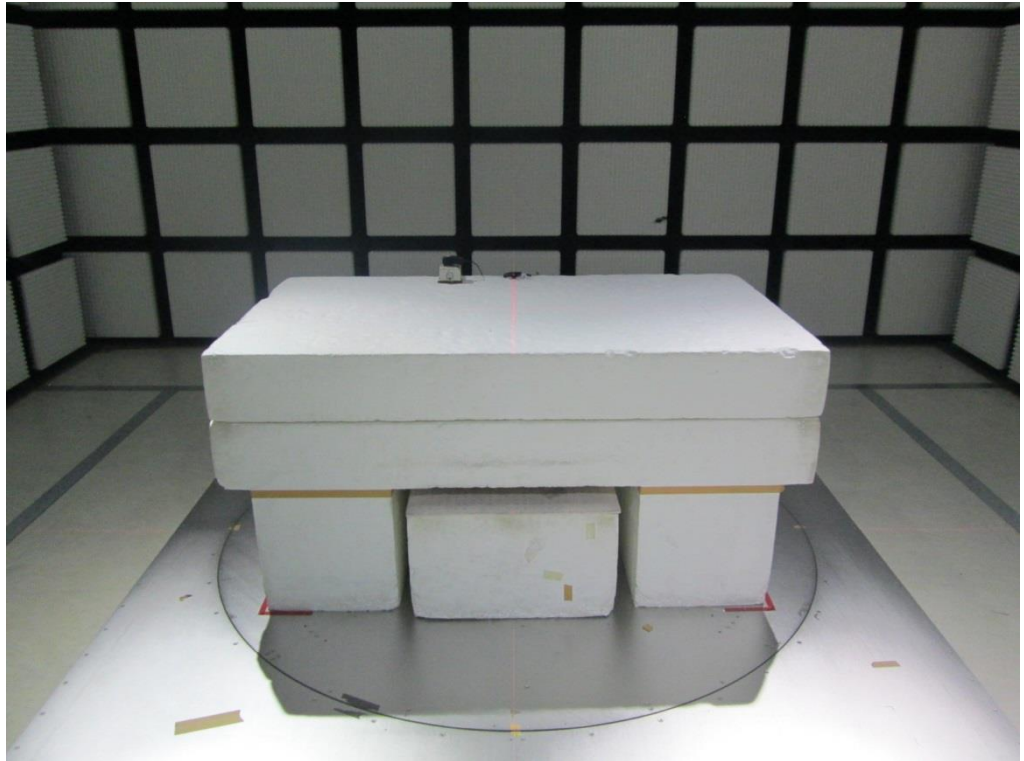


Rear view



Adapter mode; RX

Front view

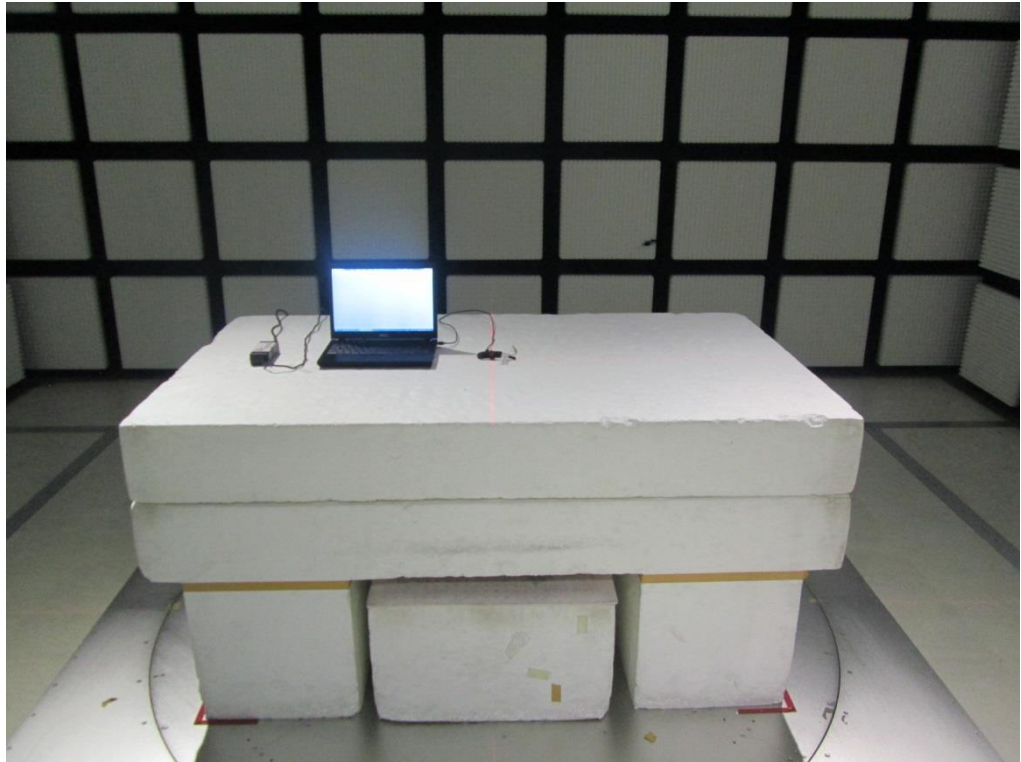


Rear view

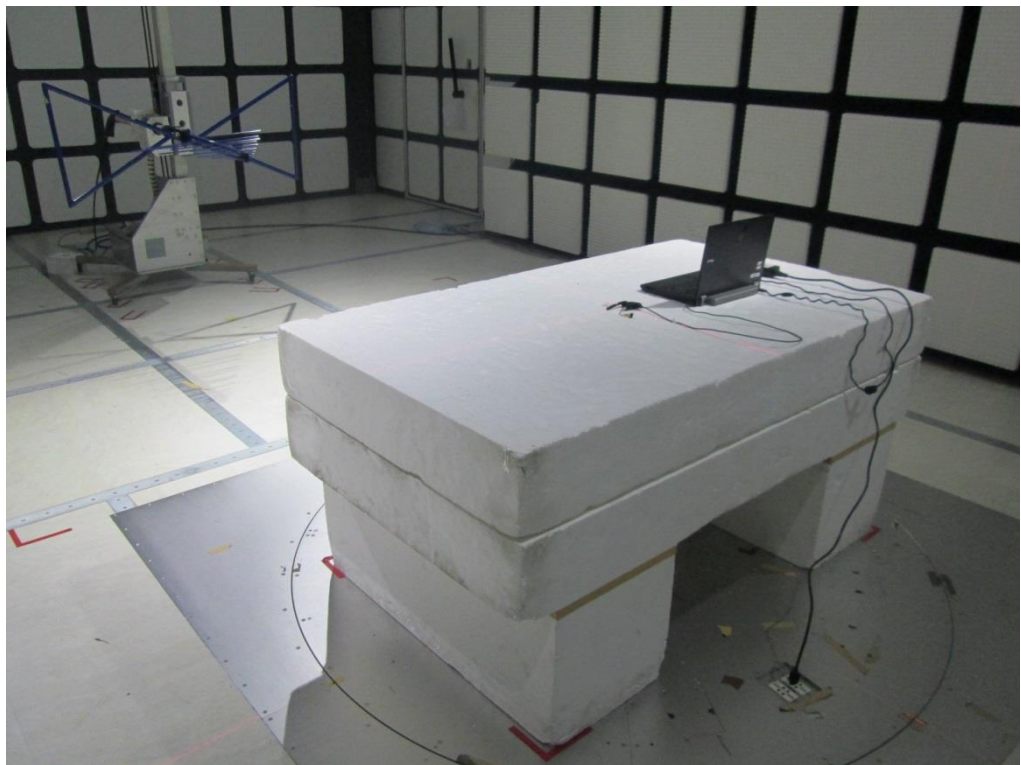


USB mode; TX

Front view

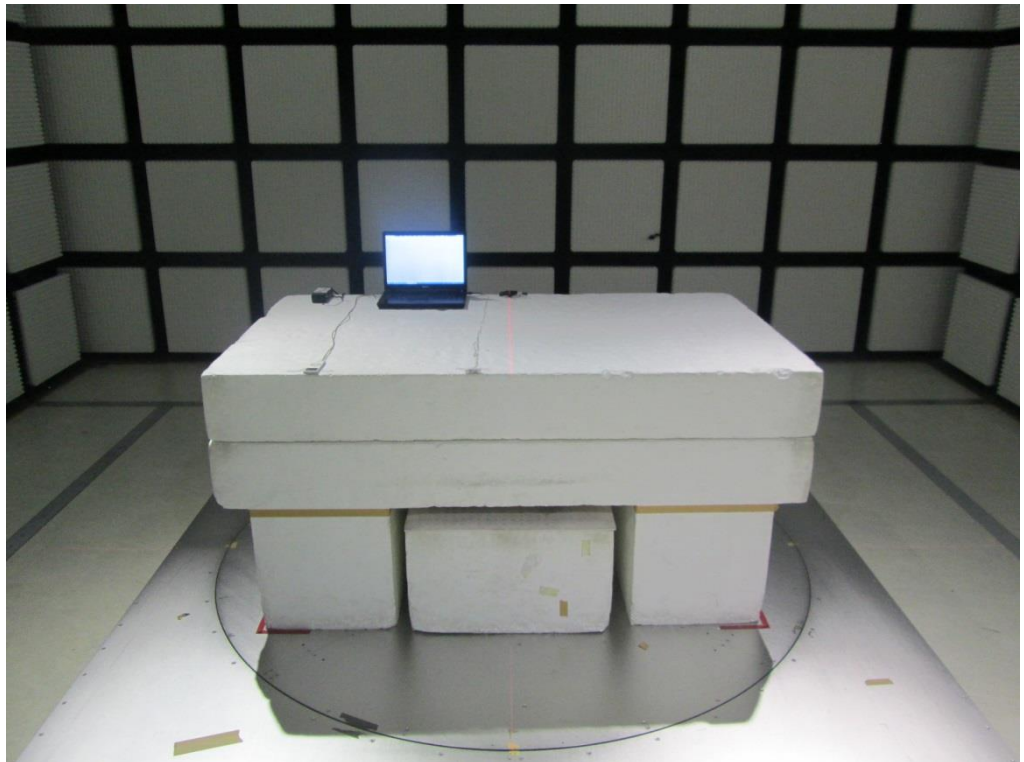


Rear view



USB mode; RX

Front view

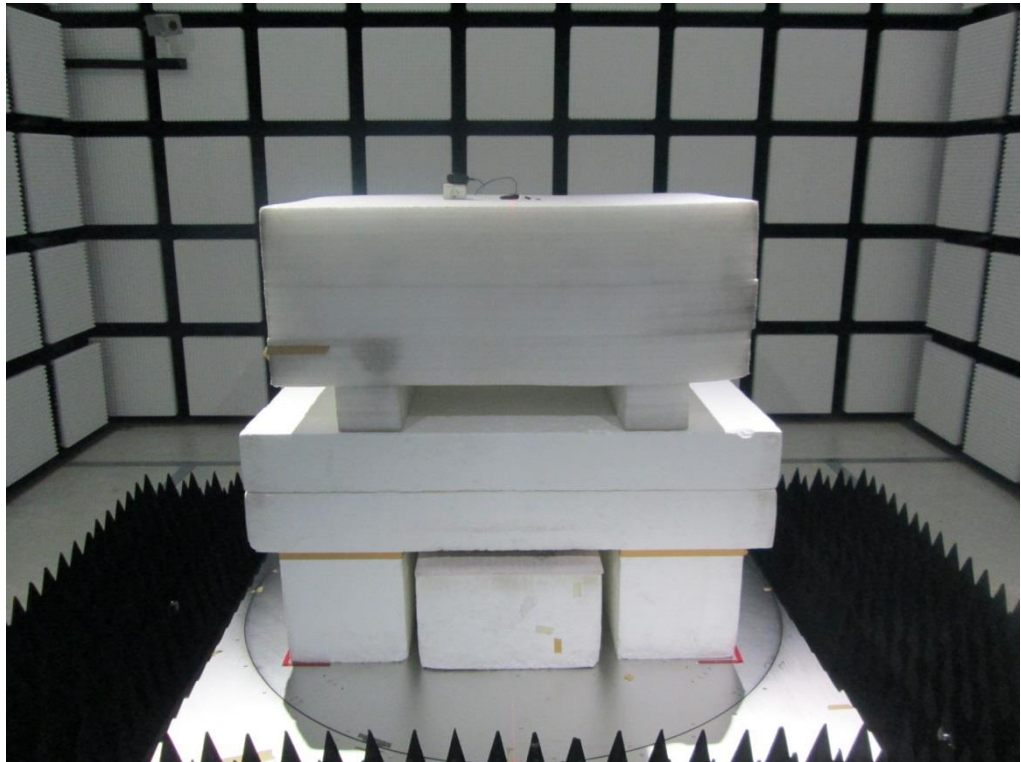


Rear view

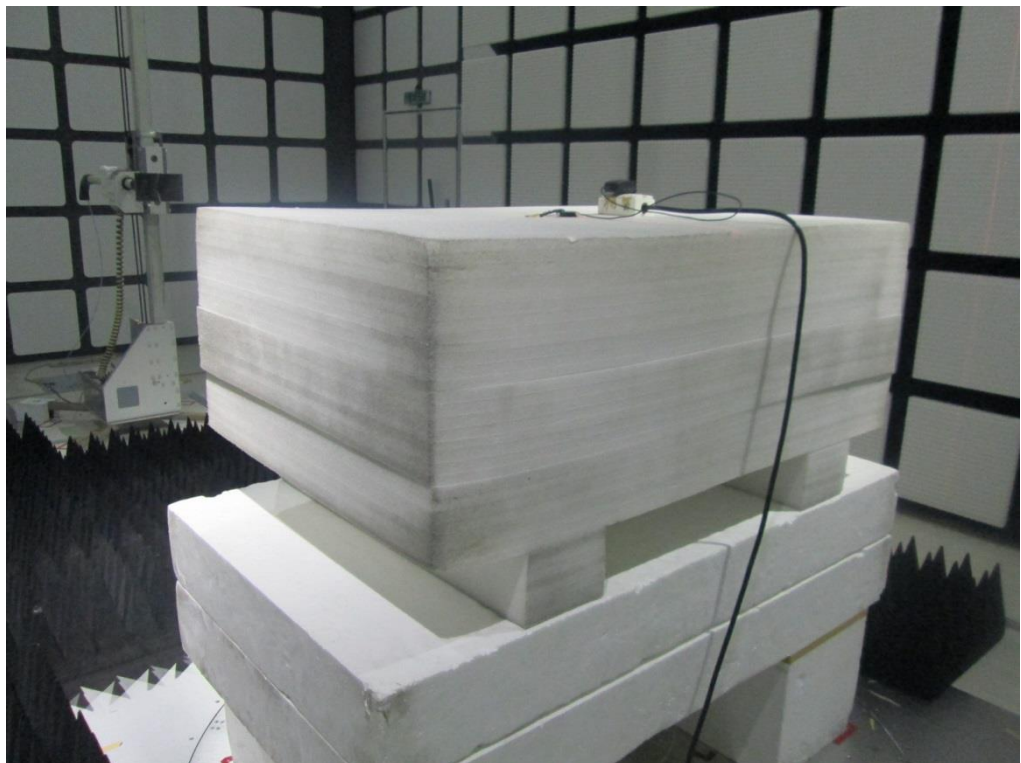


For radiated emissions above 1GHz
Adapter mode; TX

Front view

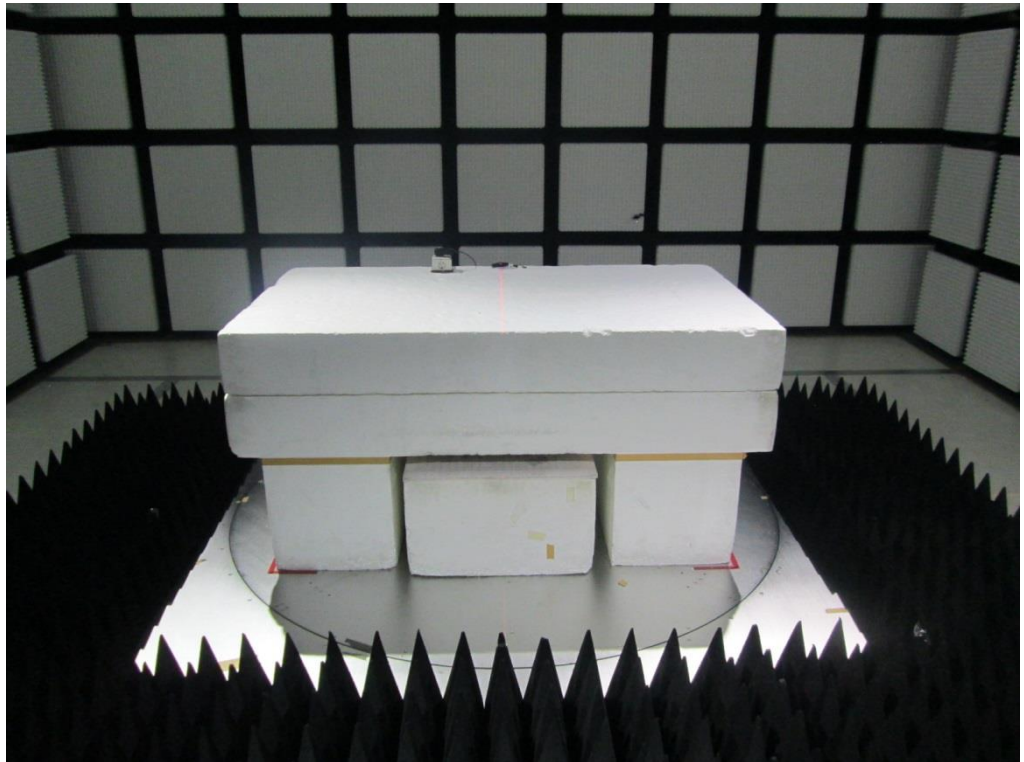


Rear view

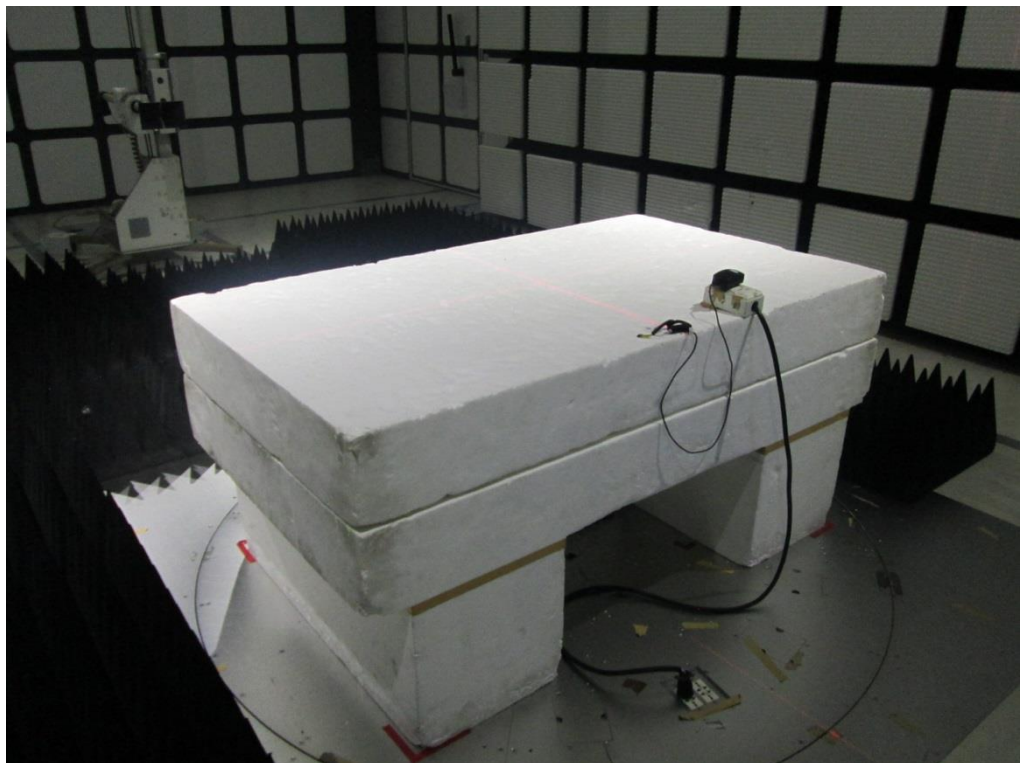


Adapter mode; RX

Front view



Rear view



————THE END————