FCC Test Report

Equipment	:	**ECU**
Brand Name	:	**Gogoro**
Model No.	:	**38700-BA2**
Standard	:	**47 CFR FCC Part 15.247**
FCC ID	:	**2AGYWGOGORO2**
Frequency	:	**2400 MHz – 2483.5 MHz**
Function	:	**☐Point-to-multipoint; ☒Point-to-point**
Applicant / Manufacturer	:	**gogoro taiwan limited 33, Dinghu Rd., Guishan, Taoyuan, Taiwan 33378**

The product sample received on Mar. 28, 2017 and completely tested on Apr. 11, 2017. We, SPORTON, 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 INTERNATIONALINC., the test report shall not be reproduced except in full.

Testing Laboratory
1190

Phoenix Chen/ Assistant Manager
SPORTON INTERNATIONAL INC.

Table of Contents

Summary of Test Result

Conformance Test Specifications				
Report Clause	**Ref. Std. Clause**	**Description**	**Limit**	**Result**
1.1.2	15.203	Antenna Requirement	FCC 15.203	Complied
3.1	15.207	AC Power-line Conducted Emissions	FCC 15.207	N/A
3.2	15.247(a)	DTS Bandwidth	≥500kHz	Complied
3.3	15.247(b)	Maximum Conducted Output Power	Power [dBm]:30	Complied
3.4	15.247(e)	Power Spectral Density	PSD [dBm/3kHz]:8	Complied
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	Non-Restricted Bands: >30 dBc	Complied
3.6	15.247(d)	Emissions in Restricted Frequency Bands	Restricted Bands: FCC 15.209	Complied

Revision History

Report No.	Version	Description	Issued Date
FR732463AL	Rev. 01	Initial issue of report	Dec. 06, 2017
FR732463AL	Rev. 02	Revise typo and PHOTOGRAPHS OF EUT	Dec. 15, 2017

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2.4-2.4835GHz	LE	2402-2480	0-39 [40]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-LE(1Mbps)	1	1TX

Note:
- Bluetooth LE uses a GFSK (1Mbps) modulation for DSSS.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	YAGEO	ANT8010LL04R2400A	Chip antenna	Murata	2.72

1.1.3 EUT Information

Identify EUT		
SW / HW	N/A	
Operational Condition		
EUT Power Type	From DC	
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) ≥ 1/T
BT-LE(1Mbps)	0.632	1.993	395u	3k

1.2 Testing Applied Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2013
- FCC KDB 558074 D01 v04

1.3 Testing Location Information

Testing Location			
☒	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)	
		TEL : 886-3-327-3456	FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.			
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH07-HY	Candy	22.4°C / 63.2%	11/Apr/2017
Radiated	03CH03-HY	Jeff	24.2C / 58%	08/Apr/2017

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	2.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	2.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	2.9 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	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	CBT

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	DC Source		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	**X Plane**	**Y Plane**	**Z Plane**
			
Worst Planes of EUT		V	

2.4 Accessories

Accessories				
-	-	-	-	-

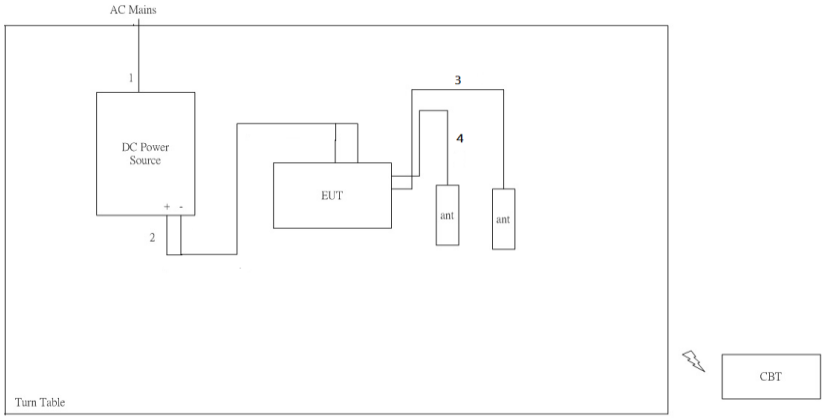
2.5 Support Equipment

Support Equipment – RF Conducted				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	HA65NM130	DoC

Support Equipment – Radiated Emission				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
-	-	-	-	-

2.6 Test Setup Diagram

Test Setup Diagram - Radiated Test TX mode



Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.8m	-
2	DC Power line	No	1.5m	-
3	RF cable	No	0.5m	-
4	RF cable	No	0.6m	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

3.1.2 Measuring Instruments

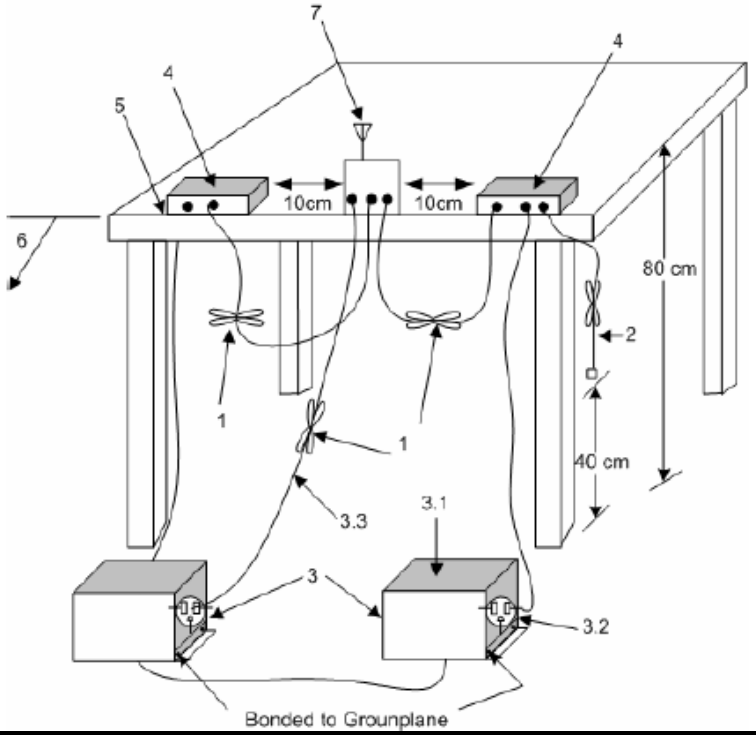
Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

AC Power-line Conducted Emissions



3.1.5 Test Result of AC Power-line Conducted Emissions

Please refer to Part 15.207(c) which states, “Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ DC power source for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines”. Therefore, for this device, AC Power Line Conducted Emissions investigation is not required.

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
▪ 6 dB bandwidth ≥ 500 kHz.

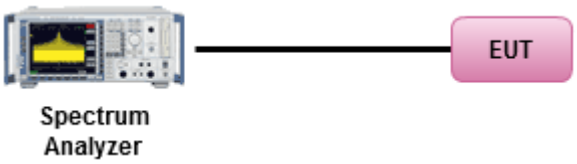
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
	☒ Refer as FCC KDB 558074, clause 8.1 Option 1 for6 dB bandwidth measurement.
	☐ Refer as FCC KDB 558074, clause 8.2 Option 2 for6 dB bandwidth measurement.
	☐ Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup

Emission Bandwidth


3.2.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit			
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)		
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)$ dBm		
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm		
	▪ Smart antenna system (SAS):		
		- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm	
		- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm	
		- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3 + 8$dB dBm	
e.i.r.p. Power Limit:			
▪ 2400-2483.5 MHz Band			
	▪ Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)		
	▪ Point-to-point systems (P2P): $P_{eirp} \leq MAX(36, [P_{Out} + G_{TX}])$ dBm		
	▪ Smart antenna system (SAS)		
		- Single beam: $P_{eirp} \leq MAX(36, P_{Out} + G_{TX})$ dBm	
		- Overlap beam: $P_{eirp} \leq MAX(36, P_{Out} + G_{TX})$ dBm	
		- Aggregate power on all beams: $P_{eirp} \leq MAX(36, [P_{Out} + G_{TX} + 8])$ dBm	
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, **G_{TX}** = the maximum transmitting antenna directional gain in dBi.			

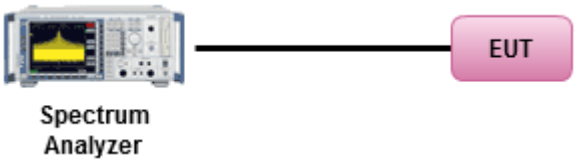
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
▪ Maximum Peak Conducted Output Power	
	☐ Refer as FCC KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).
	☐ Refer as FCC KDB 558074, clause 9.1.2 Option 2 (integrated band power method))
	☐ Refer as FCC KDB 558074, clause 9.1.3 Option 3 (peak power meter for VBW ≥ DTS BW)
▪ Maximum Average Conducted Output Power	
	Duty cycle ≥ 98%
	☐ Refer as FCC KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
	Duty cycle < 98%
	☐ Refer as FCC KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)
	RF power meter and average over on/off periods with duty factor or gated trigger
	☒ Refer as FCC KDB 558074, clause 9.2.3.1 Method AVGPM (using an RF average power meter).
▪ For conducted measurement.	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

Maximum Conducted Output Power (Spectrum Analyzer)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
▪ Power Spectral Density (PSD)≤8 dBm/3kHz

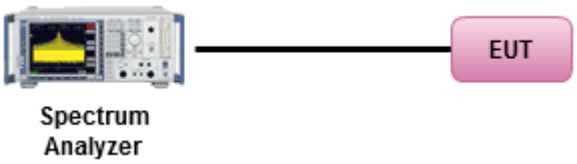
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method			
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).			
	☒ Refer as FCC KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak).		
▪ For conducted measurement.			
	▪ If The EUT supports multiple transmit chains using options given below:		
		☐	Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Power Spectral Density

Refer as Appendix C

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	**Limit (dB)**
Peak output power procedure	20
Average output power procedure	30
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. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.	

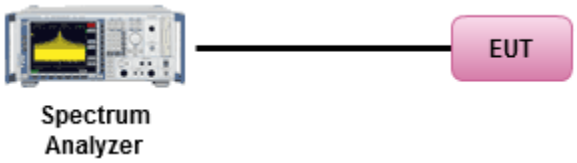
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
▪ Refer as FCC KDB 558074, clause 11 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup

Emissions in Non-restricted Frequency Bands


3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix D

3.6 Emissions in Restricted Frequency Bands

3.6.1 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 below30 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.

3.6.2 Measuring Instruments

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

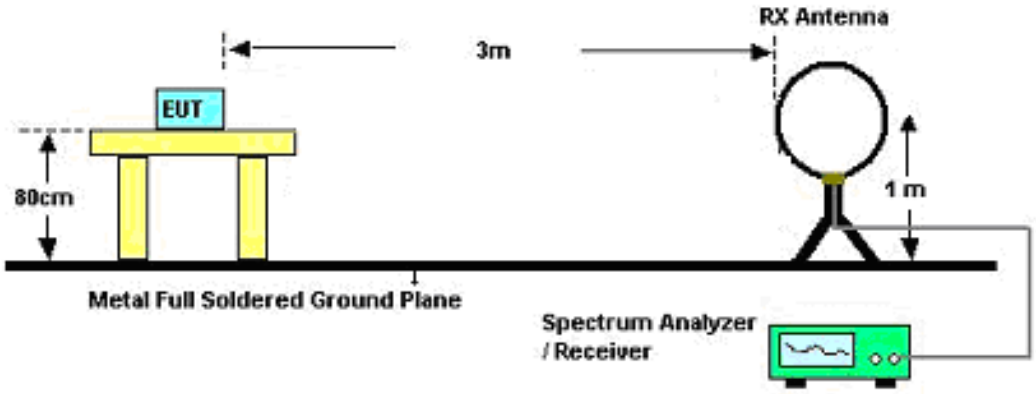
3.6.3 Test Procedures

Test Method
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
▪ For the transmitter unwanted emissions shall be measured using following options below:
▪ Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.
☒ Refer as FCC KDB 558074, clause 12.2.5.3 (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW≥1/T.
☒ Refer as FCC KDB 558074, clause 12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:
▪ Refer as FCC KDB 558074 clause 13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
▪ Refer as FCC KDB 558074, clause 13.2 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
▪ Refer as FCC KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
▪ For conducted and cabinet radiation measurement, refer as FCC KDB 558074, clause 12.2.2.
▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
▪ For KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

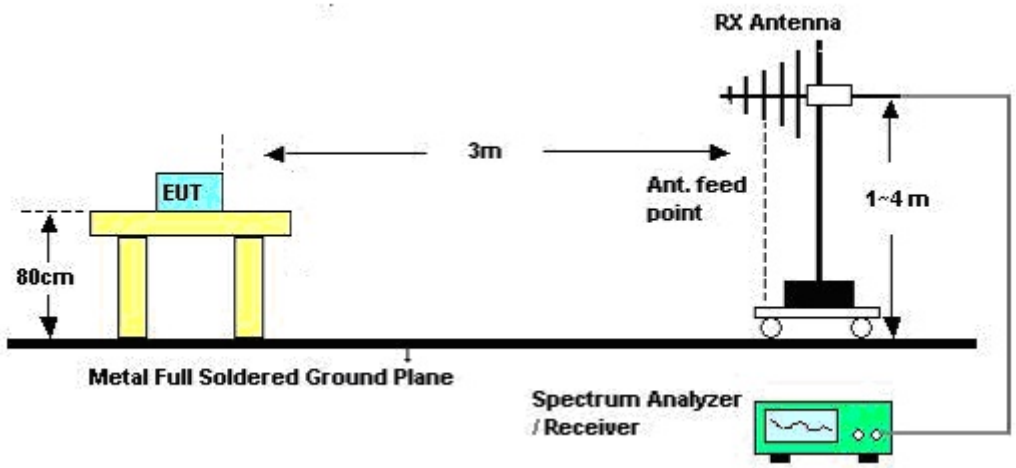
3.6.4 Test Setup

Emissions in Restricted Frequency Bands

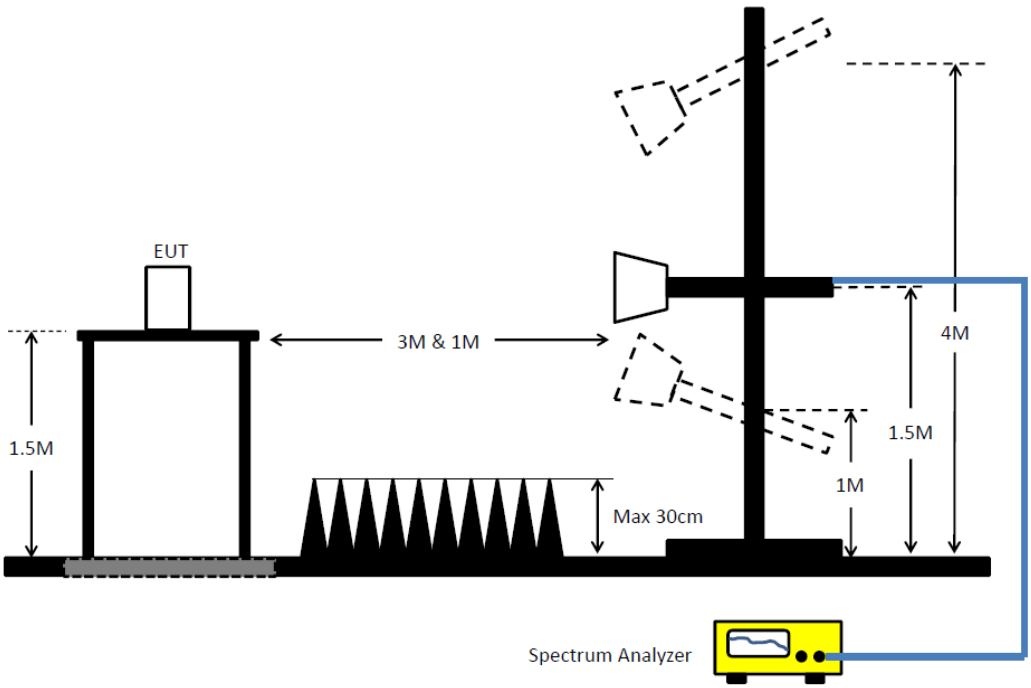
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.6.5 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

Refer as Appendix E

3.6.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz	28/Nov/2016	27/Nov/2017
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz ~ 18GHz	16/Dec/2016	15/Dec/2017
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	10/May/2016	09/May/2017
Amplifier	KEYSIGHT	83017A	MY53270197	1GHz ~ 26.5GHz	29/Aug/2016	28/Aug/2017
Spectrum	R&S	FSV40	101515	9kHz ~ 40GHz	28/Nov/2016	27/Nov/2017
Bilog Antenna	SCHAFFNER	CBL 6112D	2723	30MHz ~ 1GHz	01/Oct/2016	30/Sep/2017
Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA 9120D 1531	1GHz ~ 18GHz	22/Apr/2016	21/Apr/2017
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	18GHz ~ 40GHz	06/Feb/2017	05/Feb/2018
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz~30 MHz	02/Mar/2017	01/Mar/2018
RF-Cable-high	SUHNER	SUHNER	CB222	1GHz ~ 40GHz	28/Oct/2016	27/Oct/2017
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	27/Oct/2016	26/Oct/2017
DC Power Source	G.W.	GPS-3030DD	GEN865896	0~30V,0~3A	14/Jan/2017	13/Jan/2018
Bluetooth Tester	ROHDE&SCHWARZ	CBT	100959	Bluetooth Station	02/Mar/2017	01/Mar/2018

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101500	9kHz~40GHz	12/May/2016	11/May/ 2017
DC Power Source	G.W.	GPC-6030D	C671845	DC 1V ~ 60V	25/Apr/2016	24/Apr/2017
Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	27/Oct/2016	26/Oct/2017
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	27/Oct/2016	26/Oct/2017
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	21/Jul/2016	20/Jul/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
Bluetooth Tester	ROHDE&SCHWARZ	CBT	100959	Bluetooth Station	02/Mar/2017	01/Mar/2018

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-	-
2.4-2.4835GHz	717.5k	1.053M	1M05F1D	710k	1.05M

Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

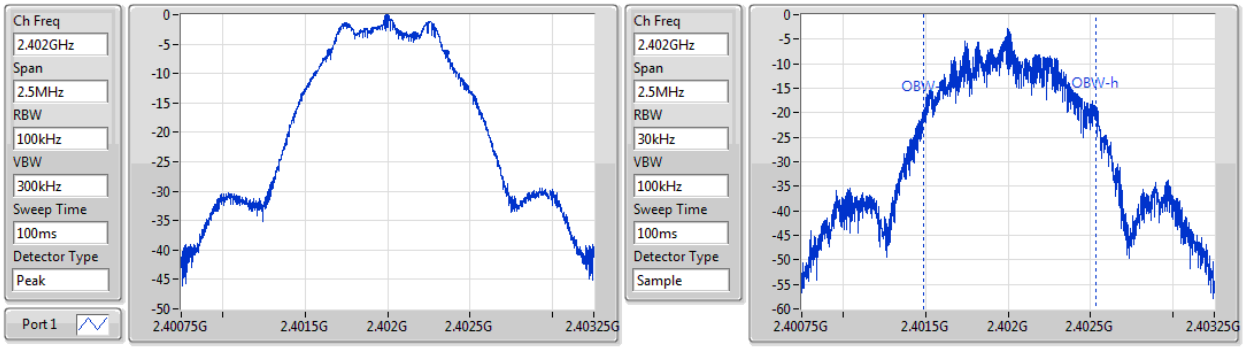
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	500k	710k	1.05M
2440MHz	Pass	500k	717.5k	1.051M
2480MHz	Pass	500k	713.75k	1.053M

Port X-N dB = Port **X** 6dB down bandwidth; **Port X-OBW** = Port **X** 99% occupied bandwidth;

BT-LE(1Mbps) **EBW**

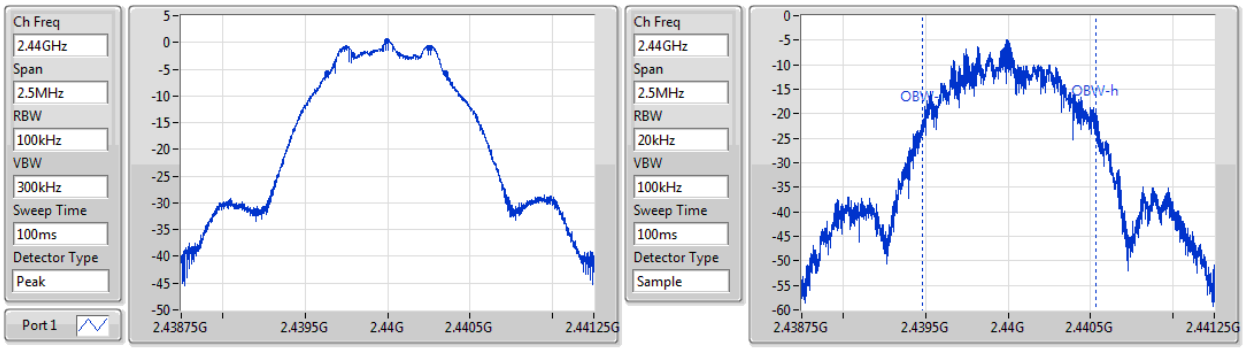
2402MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
710k	2.401649G	2.402359G	1.05M	2.401485G	2.402535G	500k	1

BT-LE(1Mbps) **EBW**

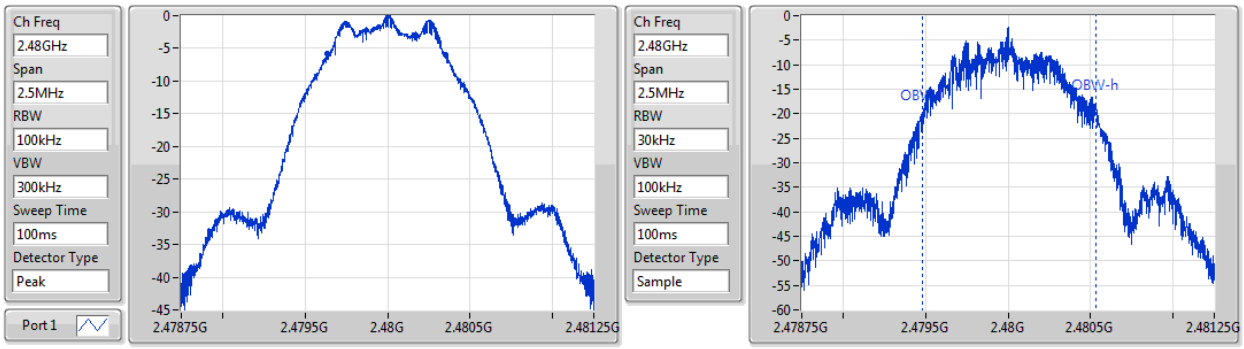
2440MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
717.5k	2.439638G	2.440355G	1.051M	2.439483G	2.440533G	500k	1

BT-LE(1Mbps) **EBW**

2480MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
713.75k	2.479635G	2.480349G	1.053M	2.479483G	2.480535G	500k	1

Summary

Mode	Power	Power
	(dBm)	(W)
BT-LE(1Mbps)	-	-
2.4-2.4835GHz	-0.02	0.00100

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.72	-0.56	30.00
2440MHz	Pass	2.72	-0.04	30.00
2480MHz	Pass	2.72	-0.02	30.00

Summary

Mode	PD (dBm/RBW)
BT-LE(1Mbps)	-
2.4-2.4835GHz	-15.72

RBW=3kHz.

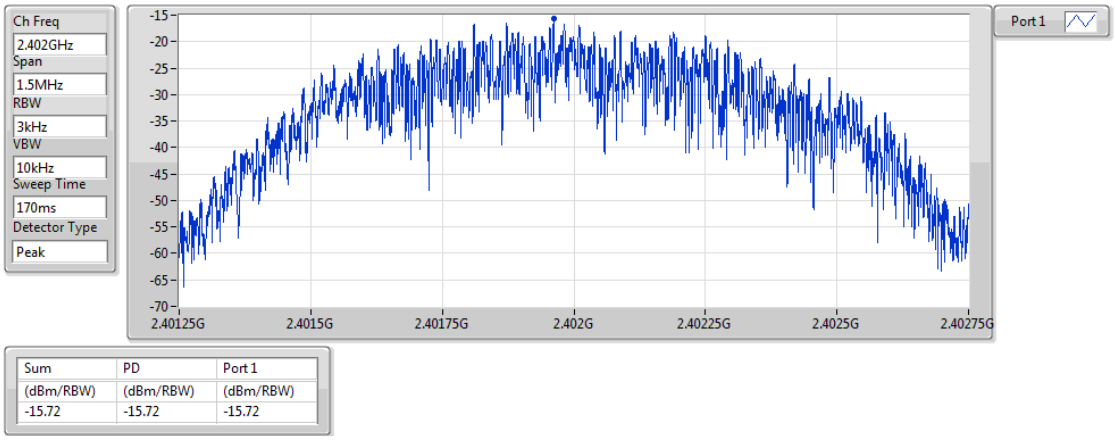
Result

Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	2.72	-15.72	8.00
2440MHz	Pass	2.72	-15.78	8.00
2480MHz	Pass	2.72	-16.04	8.00

RBW=3kHz.

BT-LE(1Mbps) **PSD**

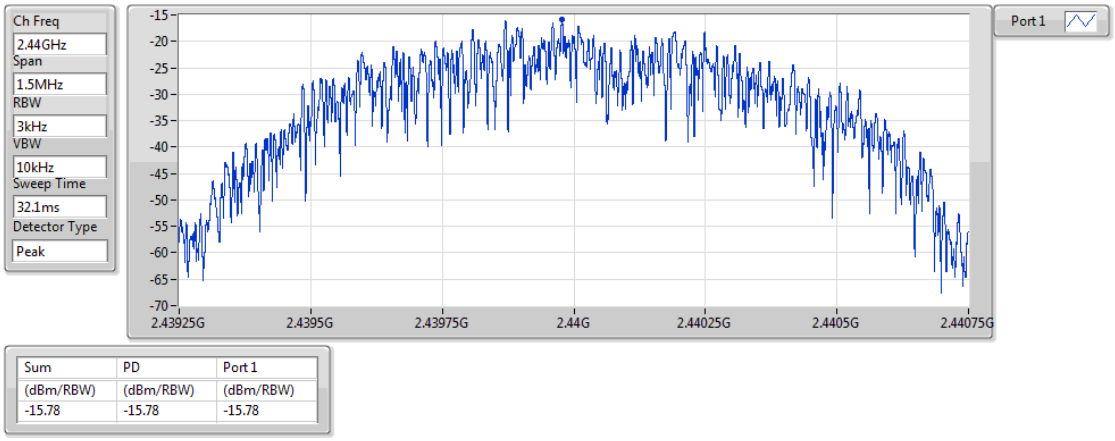
2402MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-15.72	-15.72	-15.72

BT-LE(1Mbps) **PSD**

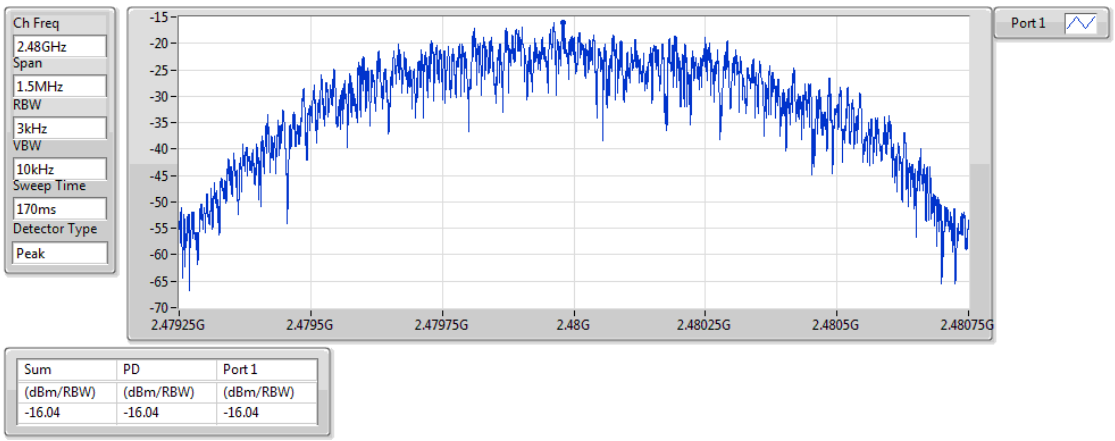
2440MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-15.78	-15.78	-15.78

BT-LE(1Mbps) **PSD**

2480MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-16.04	-16.04	-16.04

Summary

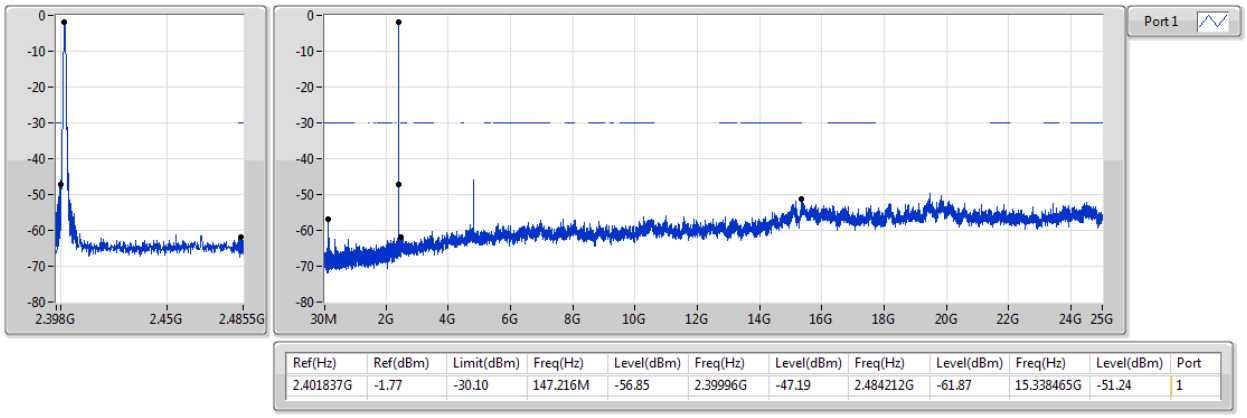
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	2.401837G	-1.77	-30.10	147.216M	-56.85	2.39996G	-47.19	2.484212G	-61.87	15.338465G	-51.24	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.401837G	-1.77	-30.10	147.216M	-56.85	2.39996G	-47.19	2.484212G	-61.87	15.338465G	-51.24	1
2440MHz	Pass	2.440247G	-0.82	-30.10	147.216M	-59.17	2.3984G	-61.56	2.48404G	-61.59	24.499052G	-51.61	1
2480MHz	Pass	2.480327G	-0.10	-30.10	147.216M	-60.58	2.39824G	-62.31	2.483544G	-51.07	15.327208G	-52.07	1

BT-LE(1Mbps) **CSE NdB**

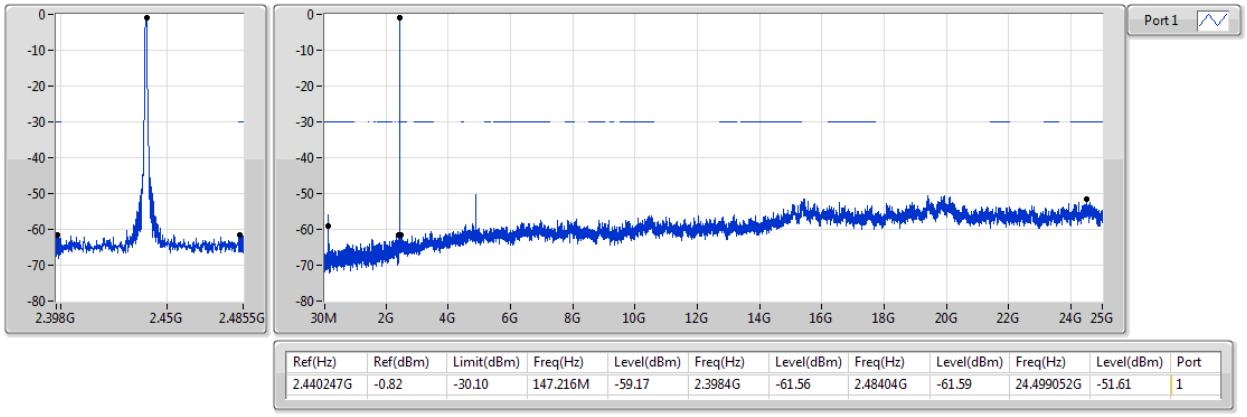
2402MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.401837G	-1.77	-30.10	147.216M	-56.85	2.39996G	-47.19	2.484212G	-61.87	15.338465G	-51.24	1

BT-LE(1Mbps) **CSE NdB**

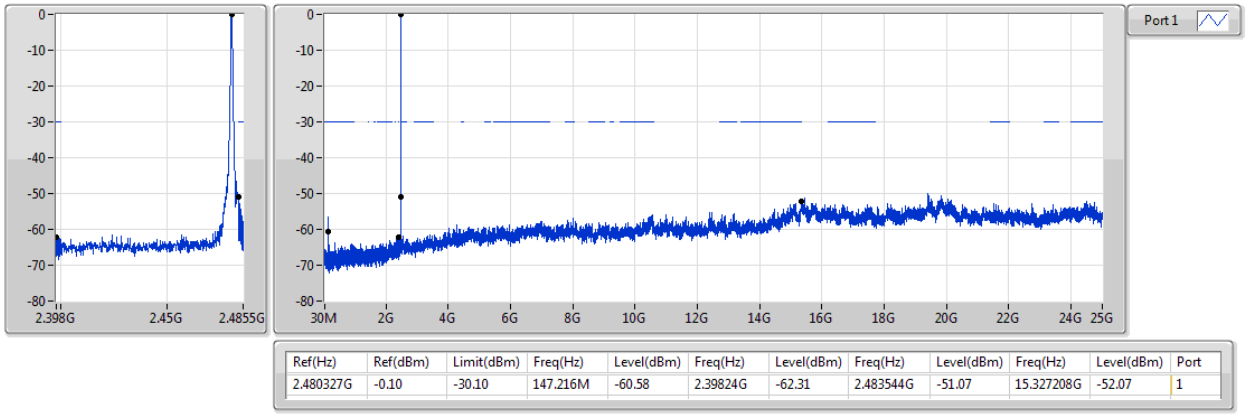
2440MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.440247G	-0.82	-30.10	147.216M	-59.17	2.3984G	-61.56	2.48404G	-61.59	24.499052G	-51.61	1

BT-LE(1Mbps) **CSE NdB**

2480MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.480327G	-0.10	-30.10	147.216M	-60.58	2.39824G	-62.31	2.483544G	-51.07	15.327208G	-52.07	1

Summary

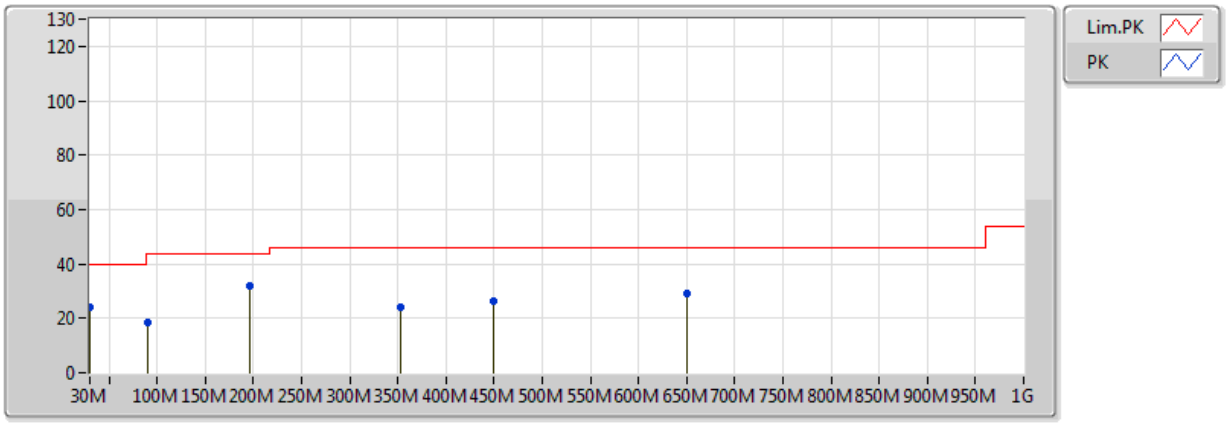
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	PK	196.84M	36.11	43.50	-7.39	-10.18	3	H	0	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	30M	23.30	40.00	-16.70	-3.82	3	H	0	1.00	-
2440MHz	Pass	PK	117.3M	18.74	43.50	-24.76	-8.04	3	H	0	1.00	-
2440MHz	Pass	PK	196.84M	36.11	43.50	-7.39	-10.18	3	H	0	1.00	-
2440MHz	Pass	PK	359.8M	24.44	46.00	-21.56	-3.97	3	H	0	1.00	-
2440MHz	Pass	PK	449.04M	27.82	46.00	-18.18	-2.00	3	H	0	1.00	-
2440MHz	Pass	PK	679.9M	29.23	46.00	-16.77	0.16	3	H	0	1.00	-
2440MHz	Pass	PK	30M	24.21	40.00	-15.79	-3.82	3	V	360	1.00	-
2440MHz	Pass	PK	90.14M	18.75	43.50	-24.75	-11.62	3	V	360	1.00	-
2440MHz	Pass	PK	196.84M	31.78	43.50	-11.72	-10.18	3	V	360	1.00	-
2440MHz	Pass	PK	352.04M	23.92	46.00	-22.08	-4.21	3	V	360	1.00	-
2440MHz	Pass	PK	449.04M	26.09	46.00	-19.91	-2.00	3	V	360	1.00	-
2440MHz	Pass	PK	650.8M	29.31	46.00	-16.69	0.22	3	V	360	1.00	-

BT-LE(1Mbps)

2440MHz_DC source

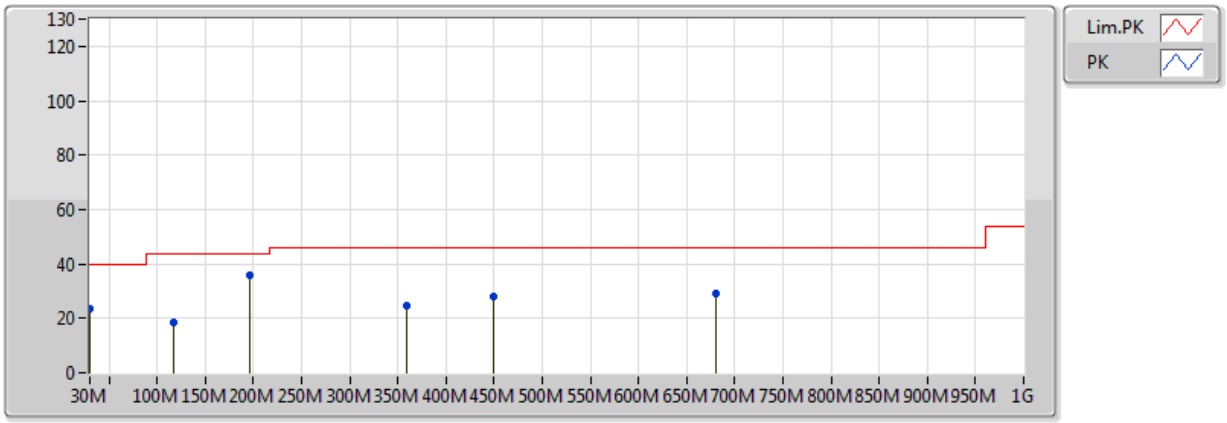


EUT : Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	30M	24.21	40.00	-15.79	-3.82	3	V	360	1.00	-
PK	90.14M	18.75	43.50	-24.75	-11.62	3	V	360	1.00	-
PK	196.84M	31.78	43.50	-11.72	-10.18	3	V	360	1.00	-
PK	352.04M	23.92	46.00	-22.08	-4.21	3	V	360	1.00	-
PK	449.04M	26.09	46.00	-19.91	-2.00	3	V	360	1.00	-
PK	650.8M	29.31	46.00	-16.69	0.22	3	V	360	1.00	-

BT-LE(1Mbps)

2440MHz_DC source



EUT : Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	30M	23.30	40.00	-16.70	-3.82	3	H	0	1.00	-
PK	117.3M	18.74	43.50	-24.76	-8.04	3	H	0	1.00	-
PK	196.84M	36.11	43.50	-7.39	-10.18	3	H	0	1.00	-
PK	359.8M	24.44	46.00	-21.56	-3.97	3	H	0	1.00	-
PK	449.04M	27.82	46.00	-18.18	-2.00	3	H	0	1.00	-
PK	679.9M	29.23	46.00	-16.77	0.16	3	H	0	1.00	-

Summary

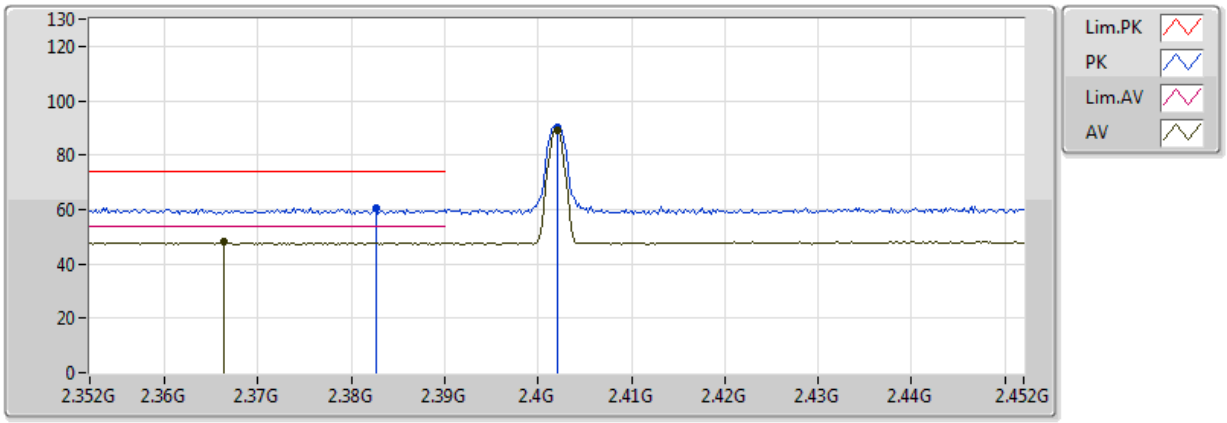
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	AV	2.4878G	48.44	54.00	-5.56	29.42	3	H	322	1.50	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.355G	47.93	54.00	-6.07	29.18	3	H	307	2.13	-
2402MHz	Pass	AV	2.402G	91.00	Inf	-Inf	29.26	3	H	307	2.13	-
2402MHz	Pass	PK	2.3698G	60.80	74.00	-13.20	29.21	3	H	307	2.13	-
2402MHz	Pass	PK	2.4018G	92.11	Inf	-Inf	29.26	3	H	307	2.13	-
2402MHz	Pass	AV	2.3664G	47.95	54.00	-6.05	29.20	3	V	202	2.04	-
2402MHz	Pass	AV	2.402G	89.33	Inf	-Inf	29.26	3	V	202	2.04	-
2402MHz	Pass	PK	2.3826G	60.77	74.00	-13.23	29.23	3	V	202	2.04	-
2402MHz	Pass	PK	2.402G	90.37	Inf	-Inf	29.26	3	V	202	2.04	-
2402MHz	Pass	AV	4.804G	33.86	54.00	-20.14	2.19	3	H	299	1.92	-
2402MHz	Pass	PK	4.804G	45.86	74.00	-28.14	2.19	3	H	299	1.92	-
2402MHz	Pass	AV	4.804G	30.42	54.00	-23.58	2.19	3	V	304	1.50	-
2402MHz	Pass	PK	4.804G	43.53	74.00	-30.47	2.19	3	V	304	1.50	-
2440MHz	Pass	AV	2.3528G	48.03	54.00	-5.97	29.18	3	H	323	1.70	-
2440MHz	Pass	AV	2.44G	87.89	Inf	-Inf	29.33	3	H	323	1.70	-
2440MHz	Pass	AV	2.484G	48.40	54.00	-5.60	29.41	3	H	323	1.70	-
2440MHz	Pass	PK	2.3584G	60.22	74.00	-13.78	29.19	3	H	323	1.70	-
2440MHz	Pass	PK	2.4404G	89.08	Inf	-Inf	29.33	3	H	323	1.70	-
2440MHz	Pass	PK	2.4844G	60.57	74.00	-13.43	29.41	3	H	323	1.70	-
2440MHz	Pass	AV	2.3508G	47.87	54.00	-6.13	29.18	3	V	203	2.24	-
2440MHz	Pass	AV	2.44G	88.44	Inf	-Inf	29.33	3	V	203	2.24	-
2440MHz	Pass	AV	2.4888G	48.32	54.00	-5.68	29.42	3	V	203	2.24	-
2440MHz	Pass	PK	2.3592G	60.46	74.00	-13.54	29.19	3	V	203	2.24	-
2440MHz	Pass	PK	2.4396G	89.62	Inf	-Inf	29.33	3	V	203	2.24	-
2440MHz	Pass	PK	2.4888G	60.68	74.00	-13.32	29.42	3	V	203	2.24	-
2440MHz	Pass	AV	4.88G	36.37	54.00	-17.63	2.32	3	H	307	1.76	-
2440MHz	Pass	PK	4.88G	47.51	74.00	-26.49	2.32	3	H	307	1.76	-
2440MHz	Pass	AV	4.88G	31.36	54.00	-22.64	2.32	3	V	315	1.50	-
2440MHz	Pass	PK	4.88G	44.39	74.00	-29.61	2.32	3	V	315	1.50	-
2480MHz	Pass	AV	2.48G	87.79	Inf	-Inf	29.40	3	H	322	1.50	-
2480MHz	Pass	AV	2.4878G	48.44	54.00	-5.56	29.42	3	H	322	1.50	-
2480MHz	Pass	PK	2.4798G	88.95	Inf	-Inf	29.40	3	H	322	1.50	-
2480MHz	Pass	PK	2.4878G	61.05	74.00	-12.95	29.42	3	H	322	1.50	-
2480MHz	Pass	AV	2.48G	88.90	Inf	-Inf	29.40	3	V	202	1.96	-
2480MHz	Pass	AV	2.4888G	48.39	54.00	-5.61	29.42	3	V	202	1.96	-
2480MHz	Pass	PK	2.4798G	90.04	Inf	-Inf	29.40	3	V	202	1.96	-
2480MHz	Pass	PK	2.4836G	61.98	74.00	-12.02	29.41	3	V	202	1.96	-
2480MHz	Pass	AV	4.96G	38.19	54.00	-15.81	2.45	3	H	294	1.80	-
2480MHz	Pass	PK	4.96G	49.04	74.00	-24.96	2.45	3	H	294	1.80	-
2480MHz	Pass	AV	4.96G	32.96	54.00	-21.04	2.45	3	V	314	1.56	-
2480MHz	Pass	PK	4.96G	44.85	74.00	-29.15	2.45	3	V	314	1.56	-

BT-LE(1Mbps)

2402MHz_TX

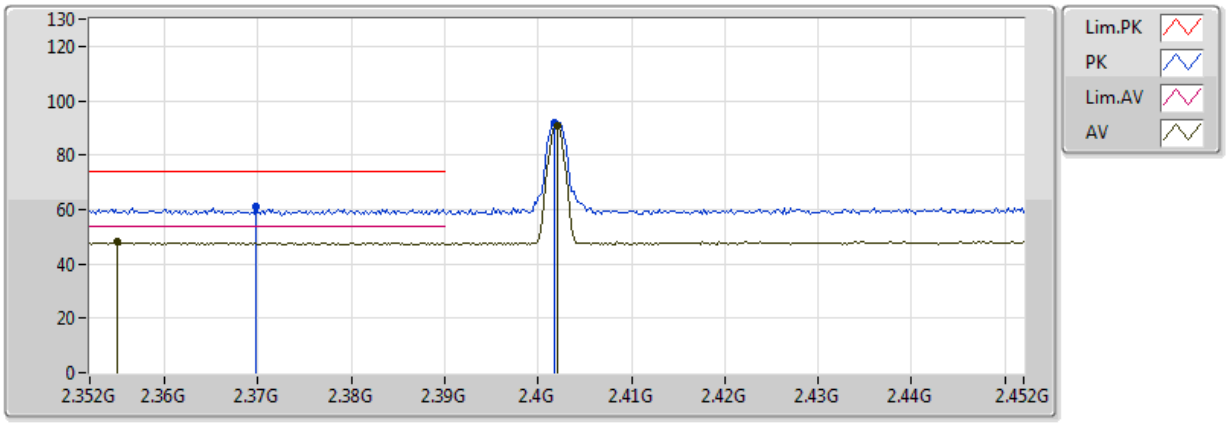


EUT : Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3664G	47.95	54.00	-6.05	29.20	3	V	202	2.04	-
AV	2.402G	89.33	Inf	-Inf	29.26	3	V	202	2.04	-
PK	2.3826G	60.77	74.00	-13.23	29.23	3	V	202	2.04	-
PK	2.402G	90.37	Inf	-Inf	29.26	3	V	202	2.04	-

BT-LE(1Mbps)

2402MHz_TX

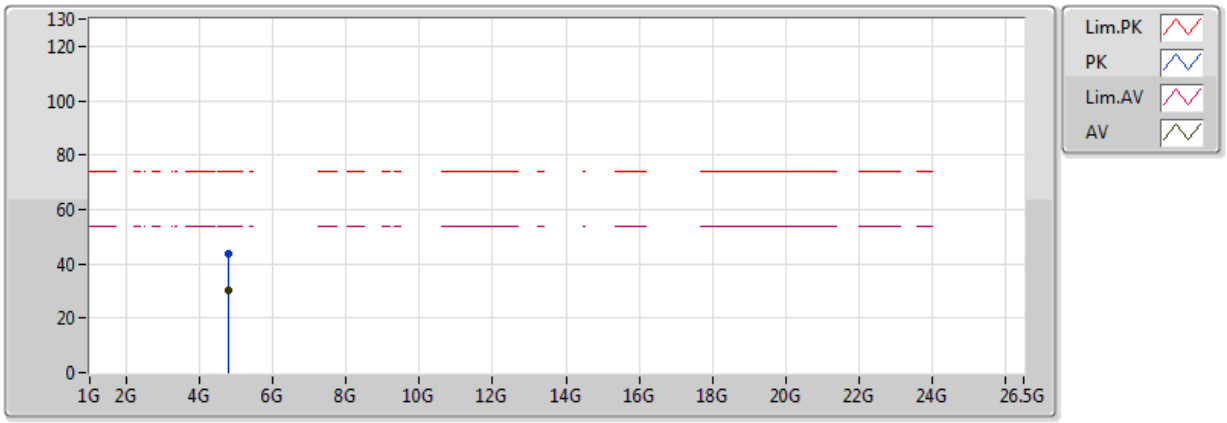


EUT : Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.355G	47.93	54.00	-6.07	29.18	3	H	307	2.13	-
AV	2.402G	91.00	Inf	-Inf	29.26	3	H	307	2.13	-
PK	2.3698G	60.80	74.00	-13.20	29.21	3	H	307	2.13	-
PK	2.4018G	92.11	Inf	-Inf	29.26	3	H	307	2.13	-

BT-LE(1Mbps)

2402MHz_TX

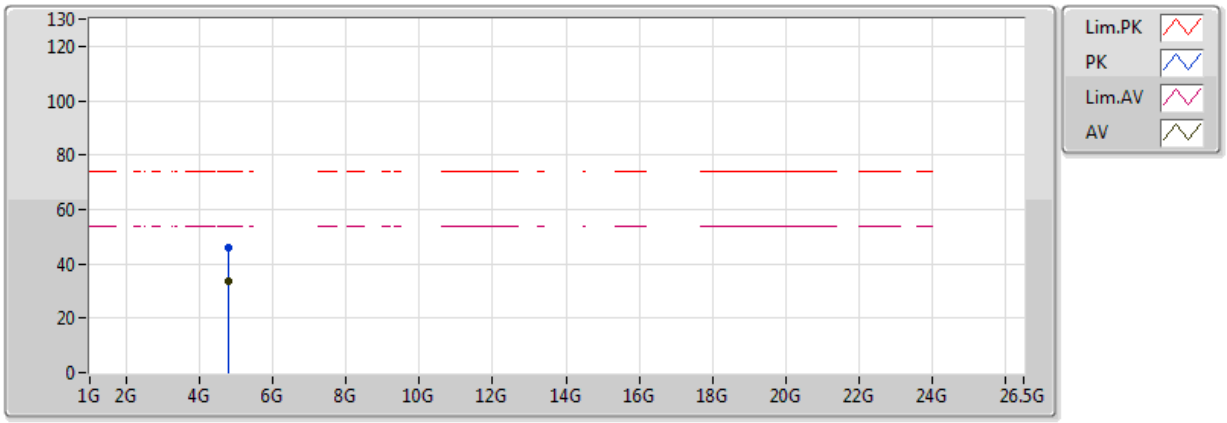


EUT : Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.804G	30.42	54.00	-23.58	2.19	3	V	304	1.50	-
PK	4.804G	43.53	74.00	-30.47	2.19	3	V	304	1.50	-

BT-LE(1Mbps)

2402MHz_TX

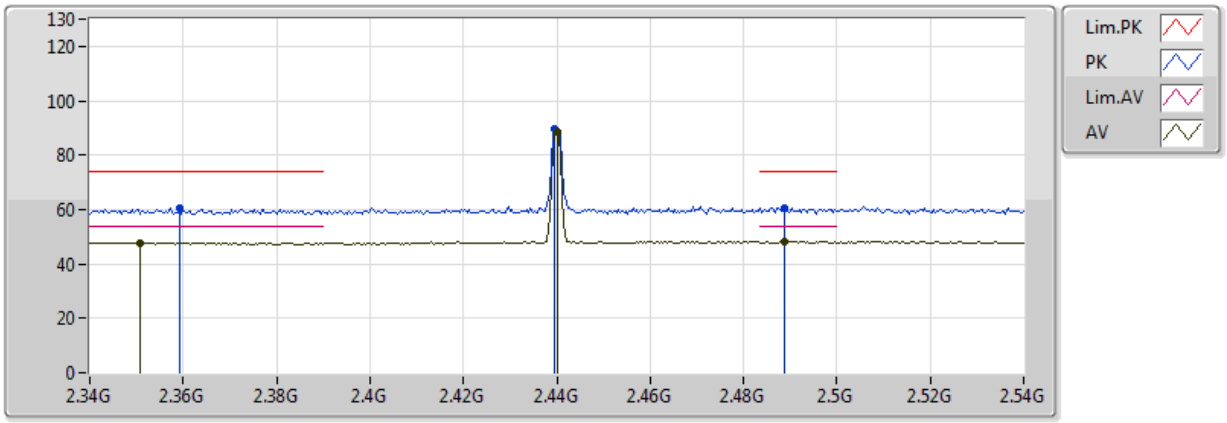


EUT : Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.804G	33.86	54.00	-20.14	2.19	3	H	299	1.92	-
PK	4.804G	45.86	74.00	-28.14	2.19	3	H	299	1.92	-

BT-LE(1Mbps)

2440MHz_TX

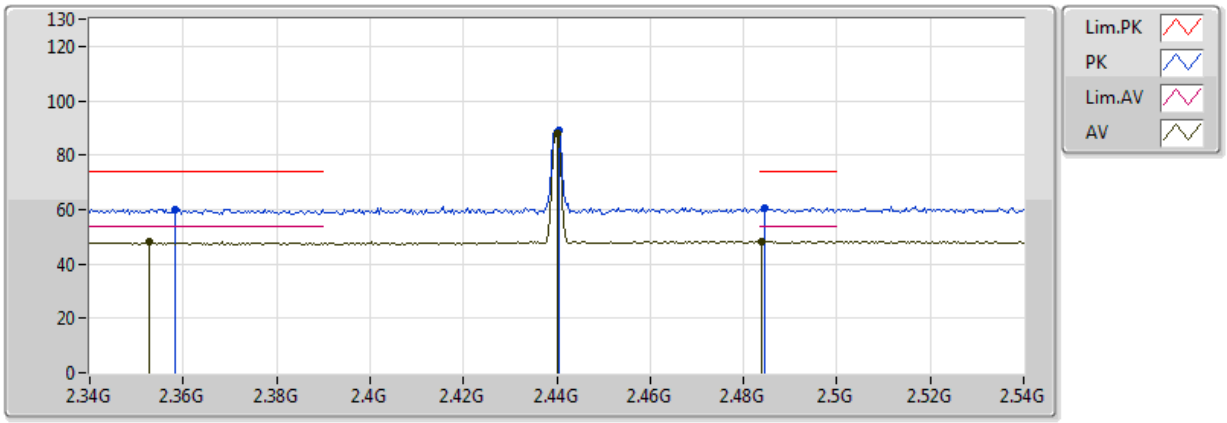


EUT : Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3508G	47.87	54.00	-6.13	29.18	3	V	203	2.24	-
AV	2.44G	88.44	Inf	-Inf	29.33	3	V	203	2.24	-
AV	2.4888G	48.32	54.00	-5.68	29.42	3	V	203	2.24	-
PK	2.3592G	60.46	74.00	-13.54	29.19	3	V	203	2.24	-
PK	2.4396G	89.62	Inf	-Inf	29.33	3	V	203	2.24	-
PK	2.4888G	60.68	74.00	-13.32	29.42	3	V	203	2.24	-

BT-LE(1Mbps)

2440MHz_TX

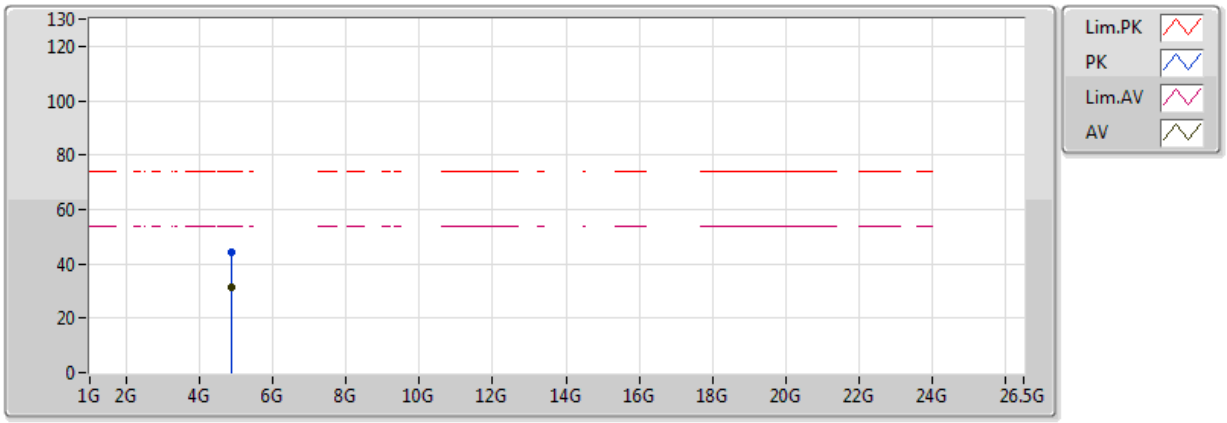


EUT : Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3528G	48.03	54.00	-5.97	29.18	3	H	323	1.70	-
AV	2.44G	87.89	Inf	-Inf	29.33	3	H	323	1.70	-
AV	2.484G	48.40	54.00	-5.60	29.41	3	H	323	1.70	-
PK	2.3584G	60.22	74.00	-13.78	29.19	3	H	323	1.70	-
PK	2.4404G	89.08	Inf	-Inf	29.33	3	H	323	1.70	-
PK	2.4844G	60.57	74.00	-13.43	29.41	3	H	323	1.70	-

BT-LE(1Mbps)

2440MHz_TX

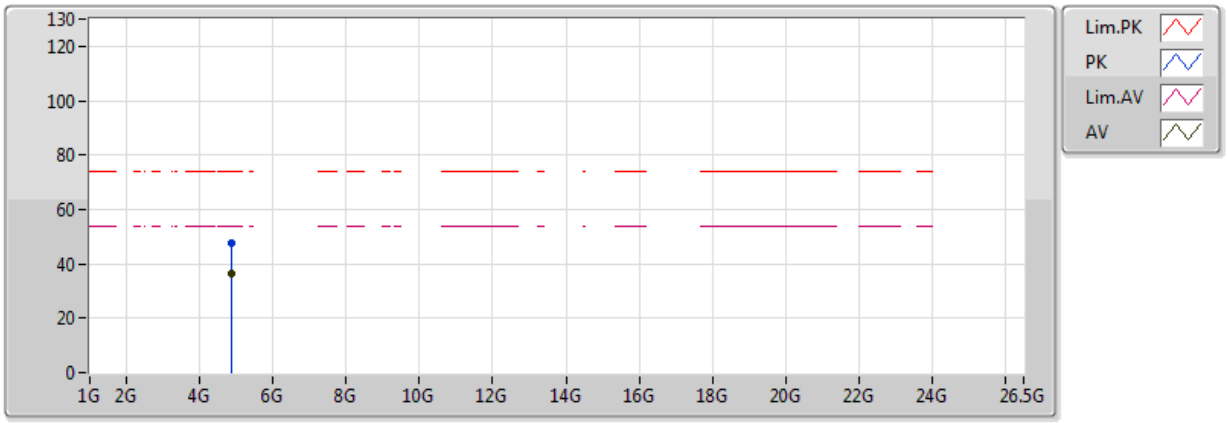


EUT : Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.88G	31.36	54.00	-22.64	2.32	3	V	315	1.50	-
PK	4.88G	44.39	74.00	-29.61	2.32	3	V	315	1.50	-

BT-LE(1Mbps)

2440MHz_TX

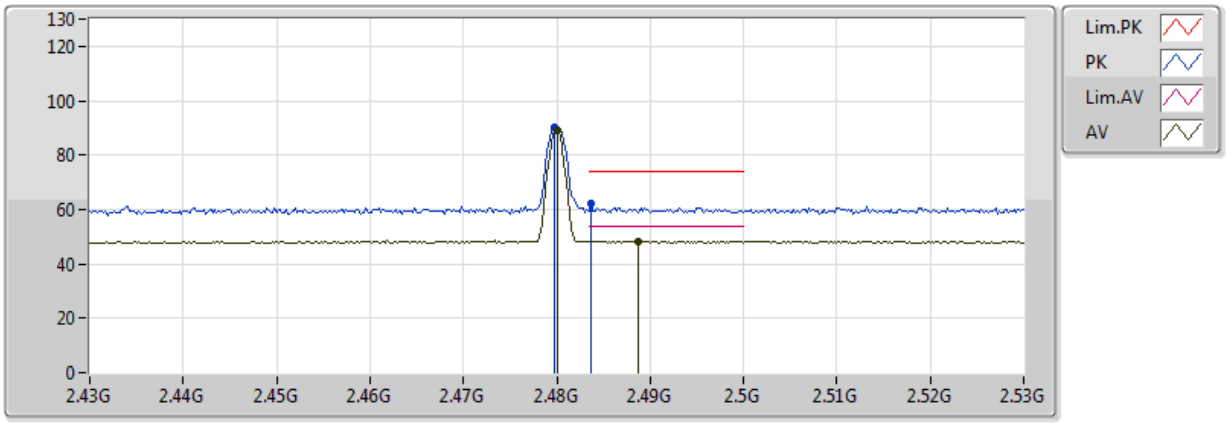


EUT : Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.88G	36.37	54.00	-17.63	2.32	3	H	307	1.76	-
PK	4.88G	47.51	74.00	-26.49	2.32	3	H	307	1.76	-

BT-LE(1Mbps)

2480MHz_TX

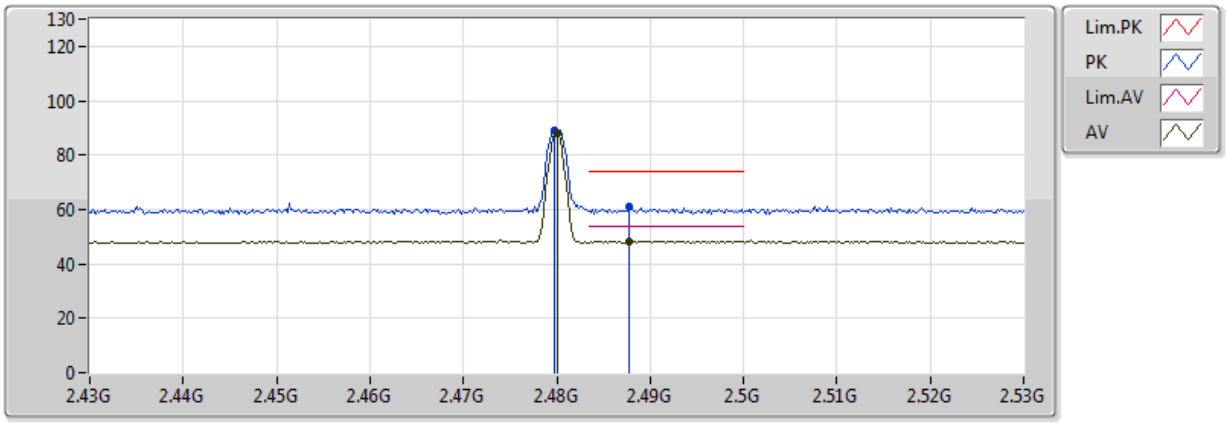


EUT : Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.48G	88.90	Inf	-Inf	29.40	3	V	202	1.96	-
AV	2.4888G	48.39	54.00	-5.61	29.42	3	V	202	1.96	-
PK	2.4798G	90.04	Inf	-Inf	29.40	3	V	202	1.96	-
PK	2.4836G	61.98	74.00	-12.02	29.41	3	V	202	1.96	-

BT-LE(1Mbps)

2480MHz_TX

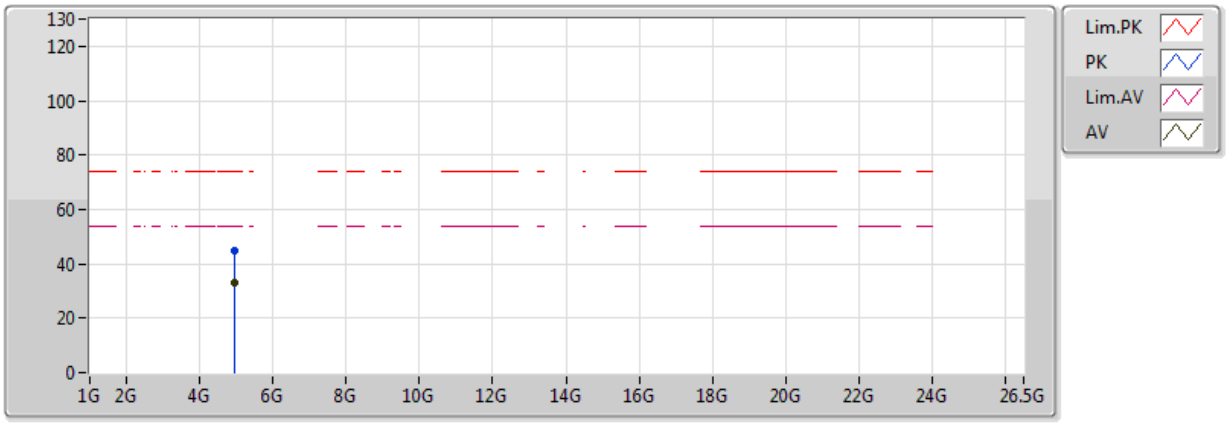


EUT : Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.48G	87.79	Inf	-Inf	29.40	3	H	322	1.50	-
AV	2.4878G	48.44	54.00	-5.56	29.42	3	H	322	1.50	-
PK	2.4798G	88.95	Inf	-Inf	29.40	3	H	322	1.50	-
PK	2.4878G	61.05	74.00	-12.95	29.42	3	H	322	1.50	-

BT-LE(1Mbps)

2480MHz_TX

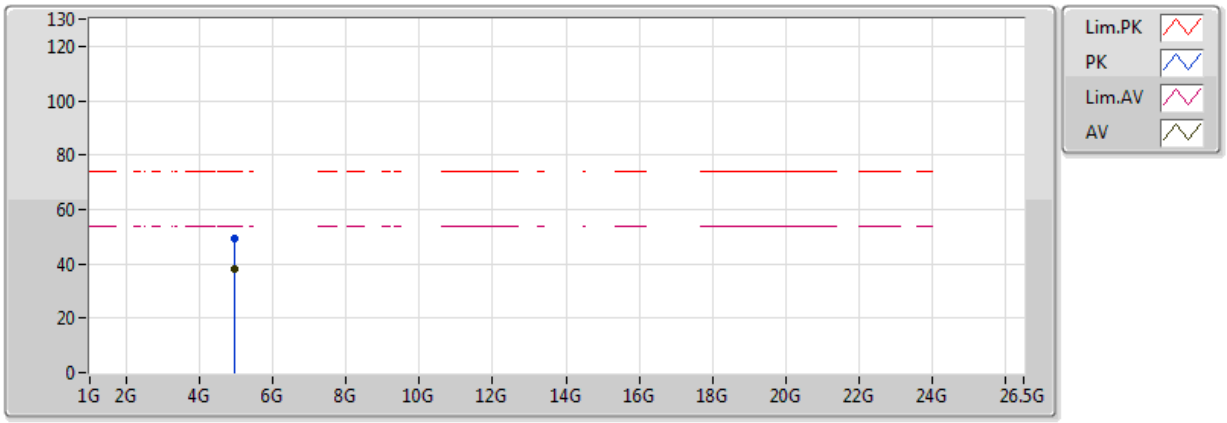


EUT : Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.96G	32.96	54.00	-21.04	2.45	3	V	314	1.56	-
PK	4.96G	44.85	74.00	-29.15	2.45	3	V	314	1.56	-

BT-LE(1Mbps)

2480MHz_TX



EUT : Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.96G	38.19	54.00	-15.81	2.45	3	H	294	1.80	-
PK	4.96G	49.04	74.00	-24.96	2.45	3	H	294	1.80	-

Summary

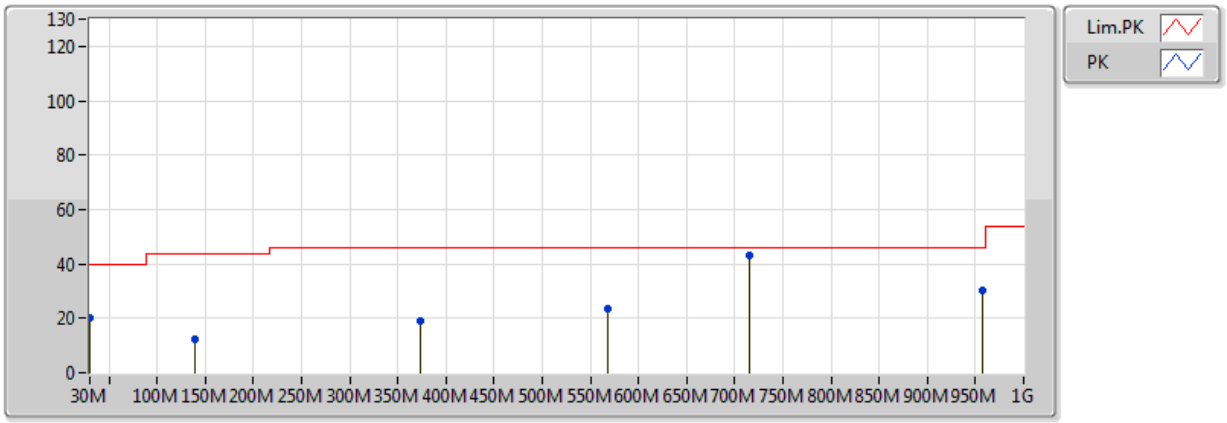
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	PK	714.82M	42.91	46.00	-3.09	-2.53	3	V	0	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	30M	19.22	40.00	-20.78	-6.91	3	H	360	1.00	-
2440MHz	Pass	PK	255.04M	16.33	46.00	-29.67	-10.79	3	H	360	1.00	-
2440MHz	Pass	PK	377.26M	19.19	46.00	-26.81	-7.62	3	H	360	1.00	-
2440MHz	Pass	PK	577.08M	22.47	46.00	-23.53	-4.60	3	H	360	1.00	-
2440MHz	Pass	PK	714.82M	39.02	46.00	-6.98	-2.53	3	H	360	1.00	-
2440MHz	Pass	PK	862.26M	28.50	46.00	-17.50	0.48	3	H	360	1.00	-
2440MHz	Pass	PK	30M	20.01	40.00	-19.99	-6.91	3	V	0	1.00	-
2440MHz	Pass	PK	138.64M	12.37	43.50	-31.13	-13.43	3	V	0	1.00	-
2440MHz	Pass	PK	373.38M	18.88	46.00	-27.12	-7.73	3	V	0	1.00	-
2440MHz	Pass	PK	567.38M	23.42	46.00	-22.58	-4.76	3	V	0	1.00	-
2440MHz	Pass	PK	714.82M	42.91	46.00	-3.09	-2.53	3	V	0	1.00	-
2440MHz	Pass	PK	957.32M	30.26	46.00	-15.74	2.76	3	V	0	1.00	-

BT-LE(1Mbps)RX

2440MHz_DC source

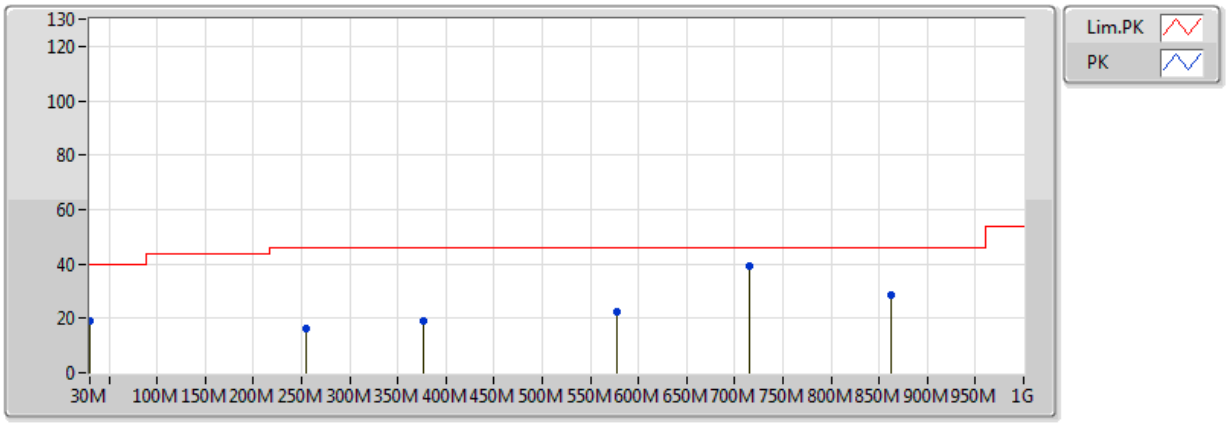


EUT : Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	30M	20.01	40.00	-19.99	-6.91	3	V	0	1.00	-
PK	138.64M	12.37	43.50	-31.13	-13.43	3	V	0	1.00	-
PK	373.38M	18.88	46.00	-27.12	-7.73	3	V	0	1.00	-
PK	567.38M	23.42	46.00	-22.58	-4.76	3	V	0	1.00	-
PK	714.82M	42.91	46.00	-3.09	-2.53	3	V	0	1.00	-
PK	957.32M	30.26	46.00	-15.74	2.76	3	V	0	1.00	-

BT-LE(1Mbps)RX

2440MHz_DC source



EUT : Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	30M	19.22	40.00	-20.78	-6.91	3	H	360	1.00	-
PK	255.04M	16.33	46.00	-29.67	-10.79	3	H	360	1.00	-
PK	377.26M	19.19	46.00	-26.81	-7.62	3	H	360	1.00	-
PK	577.08M	22.47	46.00	-23.53	-4.60	3	H	360	1.00	-
PK	714.82M	39.02	46.00	-6.98	-2.53	3	H	360	1.00	-
PK	862.26M	28.50	46.00	-17.50	0.48	3	H	360	1.00	-

Summary

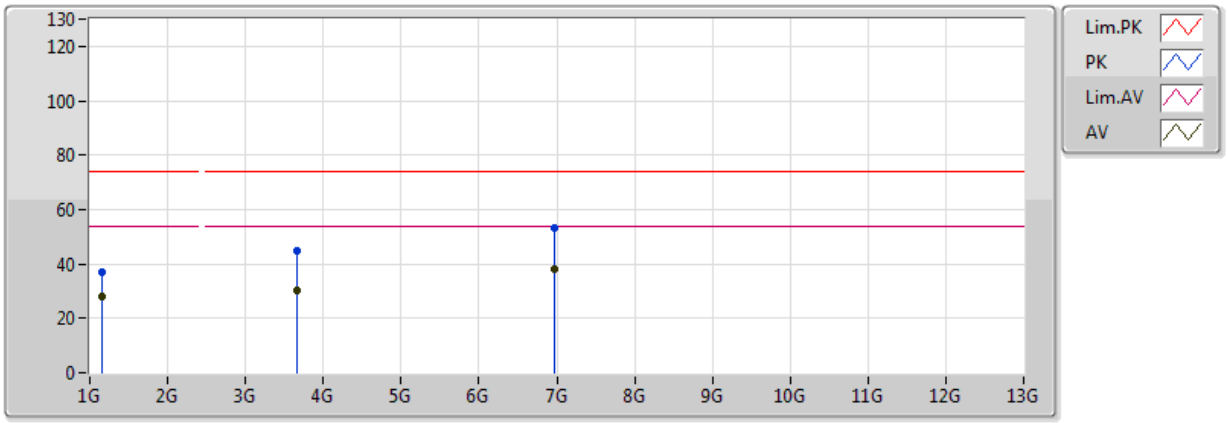
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	AV	6.9661G	38.10	54.00	-15.90	11.66	3	V	0	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2480MHz	Pass	AV	1.5968G	29.27	54.00	-24.73	-2.55	3	H	360	1.00	-
2480MHz	Pass	AV	4.9581G	37.62	54.00	-16.38	6.72	3	H	360	1.00	-
2480MHz	Pass	AV	6.9307G	38.08	54.00	-15.92	11.56	3	H	360	1.00	-
2480MHz	Pass	PK	1.5968G	41.23	74.00	-32.77	-2.55	3	H	360	1.00	-
2480MHz	Pass	PK	4.9581G	48.21	74.00	-25.79	6.72	3	H	360	1.00	-
2480MHz	Pass	PK	6.9307G	53.88	74.00	-20.12	11.56	3	H	360	1.00	-
2480MHz	Pass	AV	1.1497G	27.83	54.00	-26.17	-5.60	3	V	0	1.00	-
2480MHz	Pass	AV	3.6567G	30.33	54.00	-23.67	3.74	3	V	0	1.00	-
2480MHz	Pass	AV	6.9661G	38.10	54.00	-15.90	11.66	3	V	0	1.00	-
2480MHz	Pass	PK	1.1497G	37.10	74.00	-36.90	-5.60	3	V	0	1.00	-
2480MHz	Pass	PK	3.6567G	44.68	74.00	-29.32	3.74	3	V	0	1.00	-
2480MHz	Pass	PK	6.9661G	53.39	74.00	-20.61	11.66	3	V	0	1.00	-

BT-LE(1Mbps)RX

2480MHz_RX

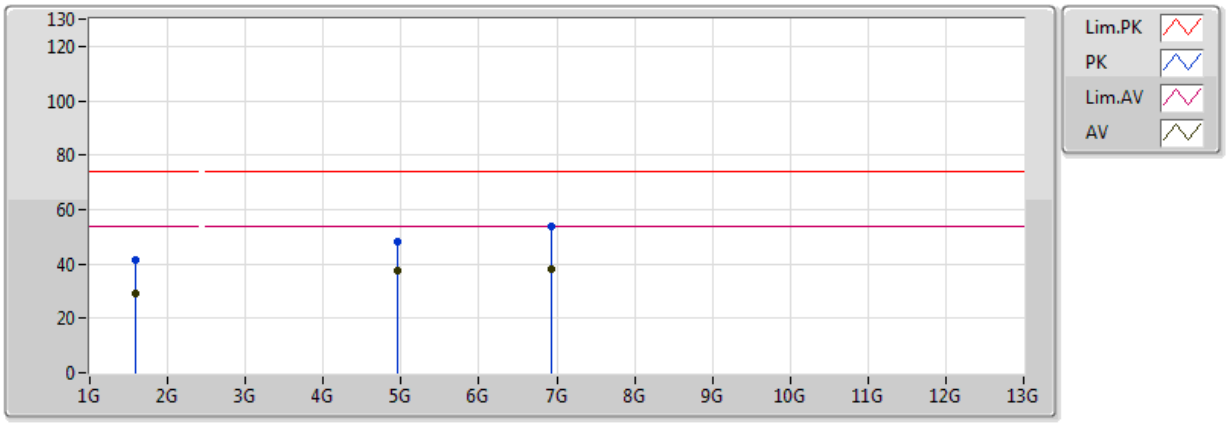


EUT : Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	1.1497G	27.83	54.00	-26.17	-5.60	3	V	0	1.00	-
AV	3.6567G	30.33	54.00	-23.67	3.74	3	V	0	1.00	-
AV	6.9661G	38.10	54.00	-15.90	11.66	3	V	0	1.00	-
PK	1.1497G	37.10	74.00	-36.90	-5.60	3	V	0	1.00	-
PK	3.6567G	44.68	74.00	-29.32	3.74	3	V	0	1.00	-
PK	6.9661G	53.39	74.00	-20.61	11.66	3	V	0	1.00	-

BT-LE(1Mbps)RX

2480MHz_RX



EUT : Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	1.5968G	29.27	54.00	-24.73	-2.55	3	H	360	1.00	-
AV	4.9581G	37.62	54.00	-16.38	6.72	3	H	360	1.00	-
AV	6.9307G	38.08	54.00	-15.92	11.56	3	H	360	1.00	-
PK	1.5968G	41.23	74.00	-32.77	-2.55	3	H	360	1.00	-
PK	4.9581G	48.21	74.00	-25.79	6.72	3	H	360	1.00	-
PK	6.9307G	53.88	74.00	-20.12	11.56	3	H	360	1.00	-