

FCC Test Report

Equipment : Lyric™ C1 Wi-Fi® Camera
Brand Name : Honeywell
Model No. : LYRICC1
Standard : 47 CFR FCC Part 15.247
Frequency : 2400 MHz – 2483.5 MHz
Function : ☐ Point-to-multipoint; ☒ Point-to-point
Applicant : Honeywell International Inc
2 Corporate Center Drive, Melville New York 11747
United States
Manufacturer : EDIMAX TECHNOLOGY CO., LTD.
No.3, Wu-Chuan 3rd Road, Wu-Ku Industrial Park, New
Taipei City, Taiwan

The product sample received on Feb. 13, 2017 and completely tested on Mar. 27, 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 INTERNATIONAL INC., the test report shall not be reproduced except in full.



Phoenix Chen
SPORTON INTERNATIONAL INC.



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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	Complied
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: >20 dBc	Complied
3.6	15.247(d)	Emissions in Restricted Frequency Bands	Restricted Bands: FCC 15.209	Complied

Revision History

[illegible]

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number
2400-2483.5	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	-	1680-D0000073-50Z	PIFA	fixed on board	4.41

1.1.3 EUT Information

Identify EUT	
SW / HW	N/A
Operational Condition	
EUT Power Type	From AC Adapter
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-LE(1Mbps)	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

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
- KDB 558074 D01 v03r05

1.3 Testing Location Information

Testing Location		
☒	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-327-0973
Test site Designation No. 553509 with FCC.		
☐	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.		

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-HY	Gary	21.5°C / 64%	16/Feb/2017
Radiated	03CH02-HY	Jeff	23.4°C / 53%	22/Feb/2017
AC Conduction	CO04-HY	Teddy	20°C / 67%	27/Mar/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

Condition Item	Abbreviation/Remark	Remark
RF Conducted-DTS	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	110V

2.2 Test Channel Mode

Test Software	RTLBTAPP
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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	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
1	Adapter mode

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	Normal Link		
1	EUT standing via Adapter		
2	EUT laying via Adapter		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

2.4 Accessories

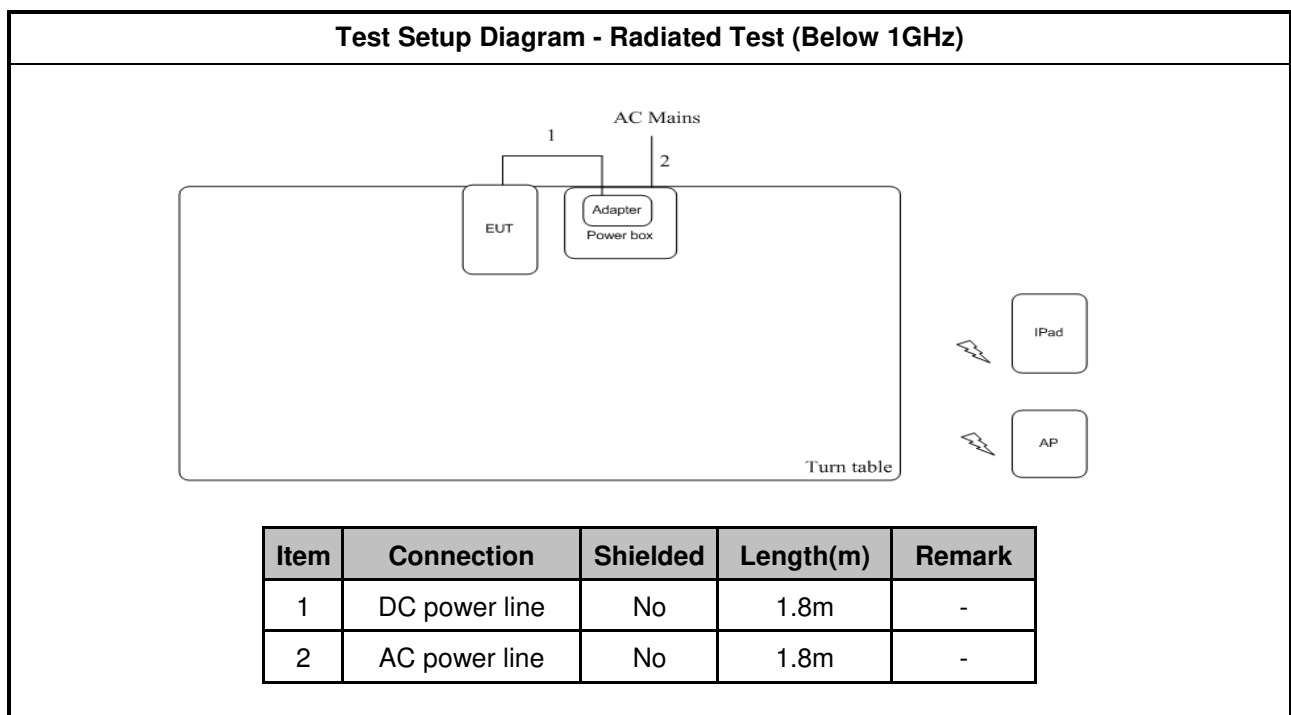
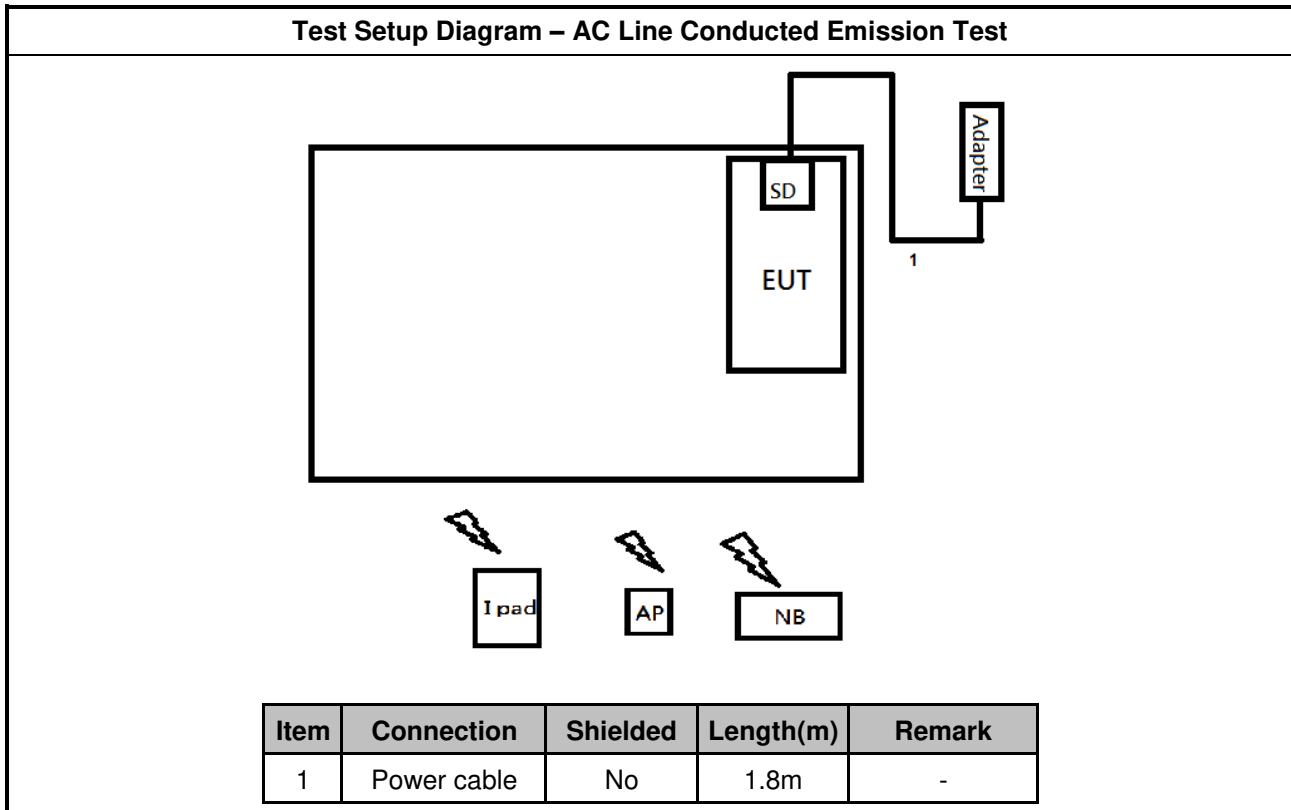
Accessories				
AC Adapter	Brand Name	APD	Model Name	WB-10E05FU
	Power Rating	I/P:100 - 240 Vac, 50-60Hz, 0.4 A, O/P: 5 Vdc, 2 A		
	Power Cord	1.8 meter, non-shielded cable, w/o ferrite core		

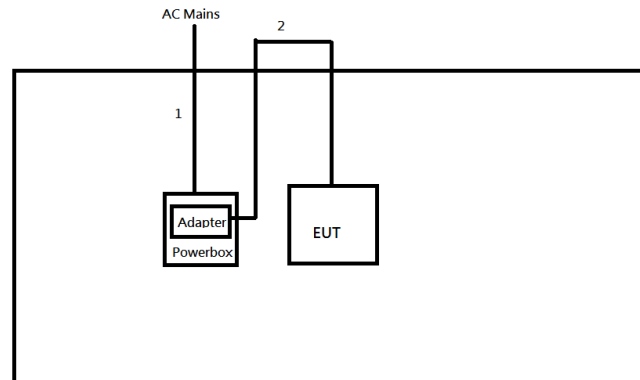
Note: Regarding to more detail and other information, please refer to user manual.

2.5 Support Equipment

Support Equipment - RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E6400	DOC
2	Adapter for NB	DELL	HA65NM130	DOC

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test (Above 1GHz)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Line	No	1.8m	-
2	USB Cable	No	1.2m	-

3.1.1 AC Power-line Conducted Emissions Limit

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Issued Date : Apr. 18, 2017

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit	
Systems using digital modulation techniques:	
▪	6 dB bandwidth $\geq$ 500 kHz.

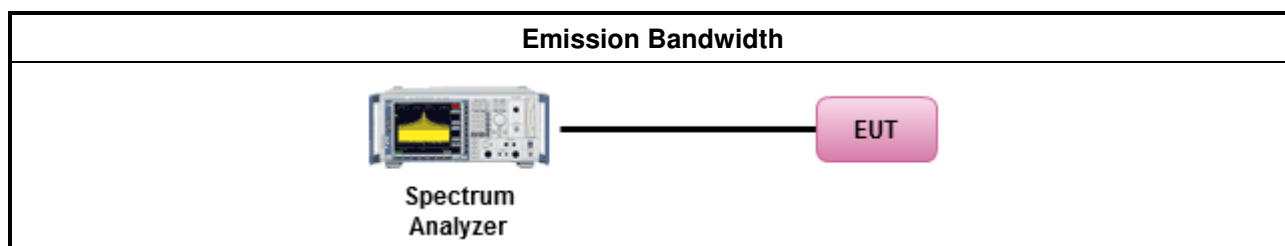
3.2.2 Measuring Instruments

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 KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement.
☐	Refer as KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

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): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm	
	Smart antenna system (SAS)	
	-	Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	-	Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	-	Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ 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.		

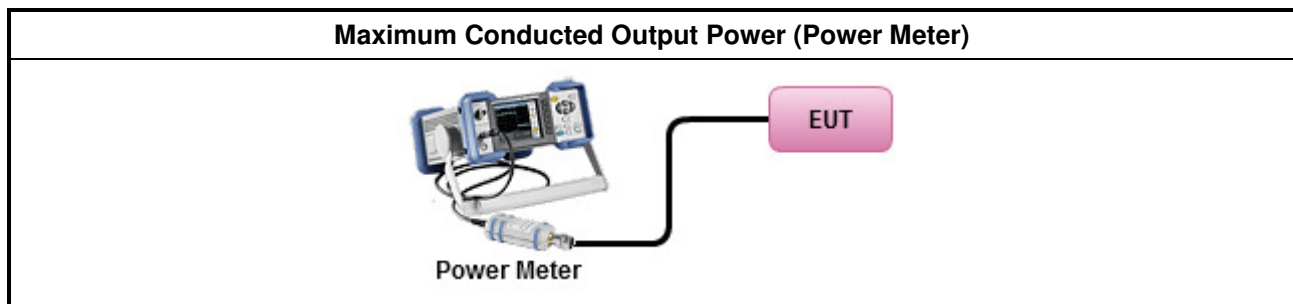
3.3.2 Measuring Instruments

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 KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).
☒	Refer as KDB 558074, clause 9.1.2 Option 2 (peak power meter for VBW ≥ DTS BW)
Maximum Average Conducted Output Power	
Duty cycle ≥ 98%	
☐	Refer as KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
Duty cycle < 98%	
☐	Refer as 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 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: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

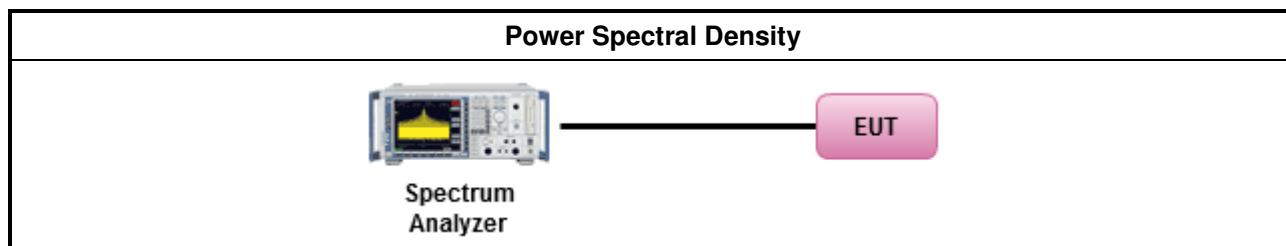
3.4.2 Measuring Instruments

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 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



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

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.	

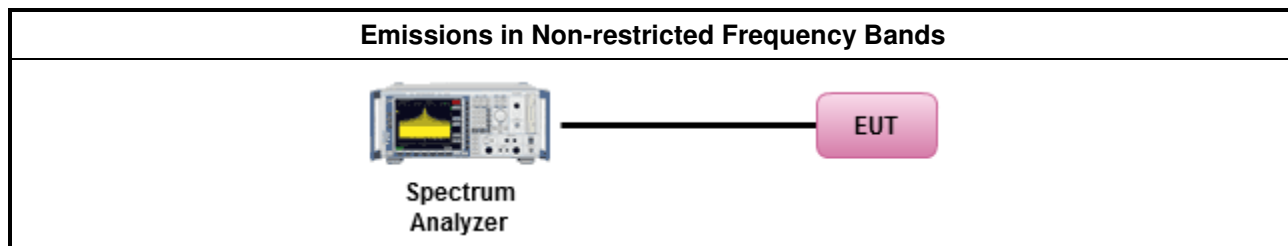
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

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 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.

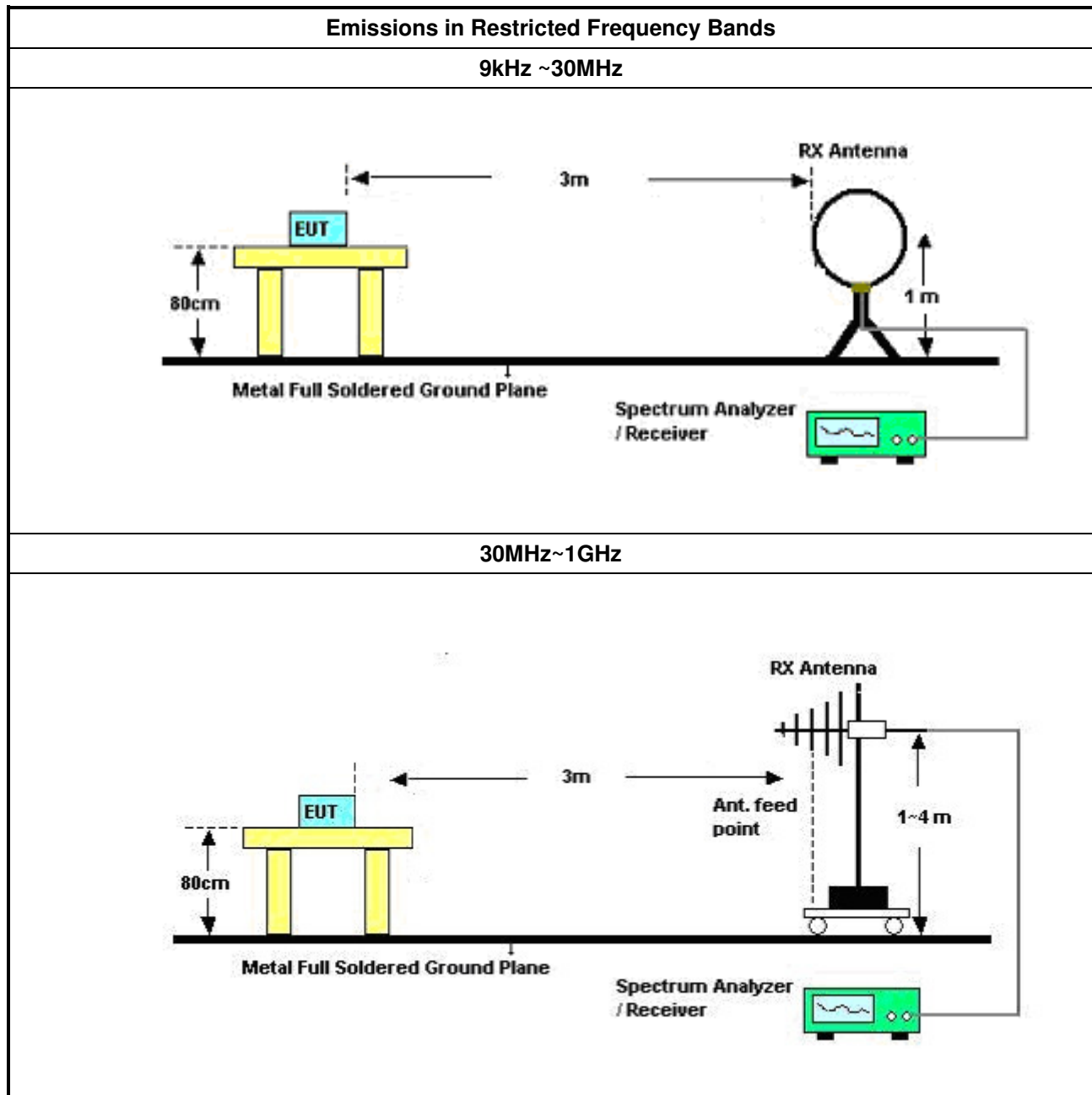
3.6.2 Measuring Instruments

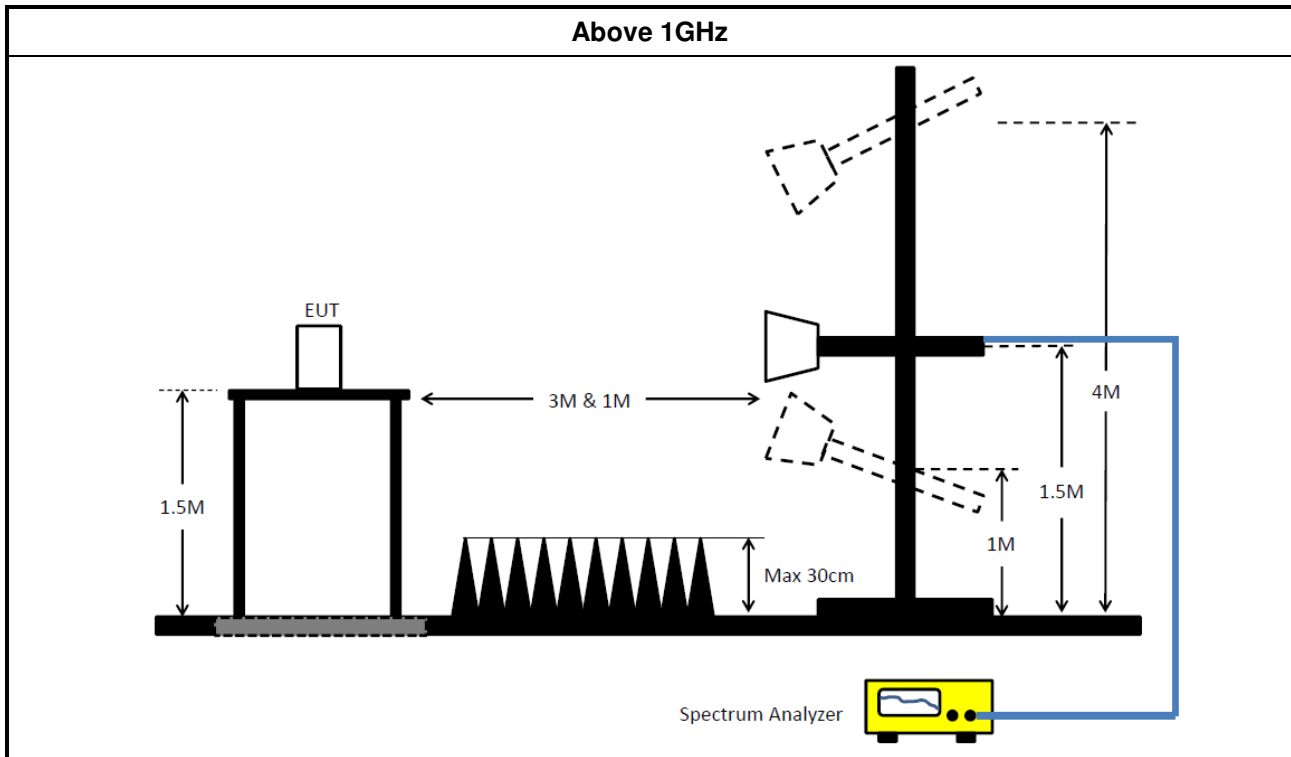
Refer a test equipment and calibration data table in this test report.

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 KDB 558074, clause 12 for unwanted emissions into restricted bands.
	☒ Refer as KDB 558074, clause 12.2.5.3 (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW $\geq 1/T$.
	☒ Refer as 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 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 KDB 558074, clause 13.2 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	Refer as 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 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





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

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

3.6.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR3	102051	9KHz ~ 3.6GHz	15/Apr/2016	14/Apr/2017
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	15/Nov/2016	14/Nov/2017
RF Cable-CON	HUBER+SUHNER	RG213/U	0761183202000 1	9kHz ~ 30MHz	24/Oct/2016	23/Oct/2017

Instrument for Radiated Test

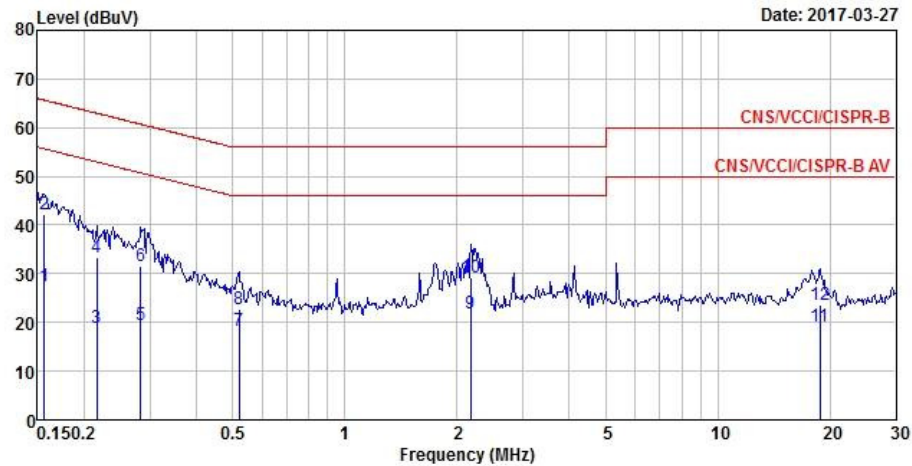
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSP40	100593	9KHz - 40GHz	26/Oct/2016	25/Oct/2017
3m Semi Anechoic	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz-1GHz 3M	03/Jun/2016	02/Jun/2017
Amplifier	Agilent	8447D	2944A11149	100KHz-1.3GHz	01/Jul/2016	30/Jun/2017
Amplifier	Agilent	8449B	3008A02373	1GHz-26.5GHz	02/Sep/2016	01/Sep/2017
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D 01543	1GHz-18GHz	22/Apr/2016	21/Apr/2017
Bilog Antenna	SCHAFFNER	CBL6112B	2723	30MHz-1GHz	01/Oct/2016	30/Sep/2017
Loop Antenna	TESEQ	HLA 6120	24155	9KHz-30MHz	16/Mar/2016	15/Mar/2017
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	26/Jan/2017	25/Jan/2018
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	26/Jan/2017	25/Jan/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
Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	22/Feb/2016	21/Feb/2017
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	22/Feb/2016	21/Feb/2017
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	21/Jul/2016	20/Jul/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_10 4	MY10709/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_10 4	MY10710/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_10 4	MY10713/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Adapter Mode		

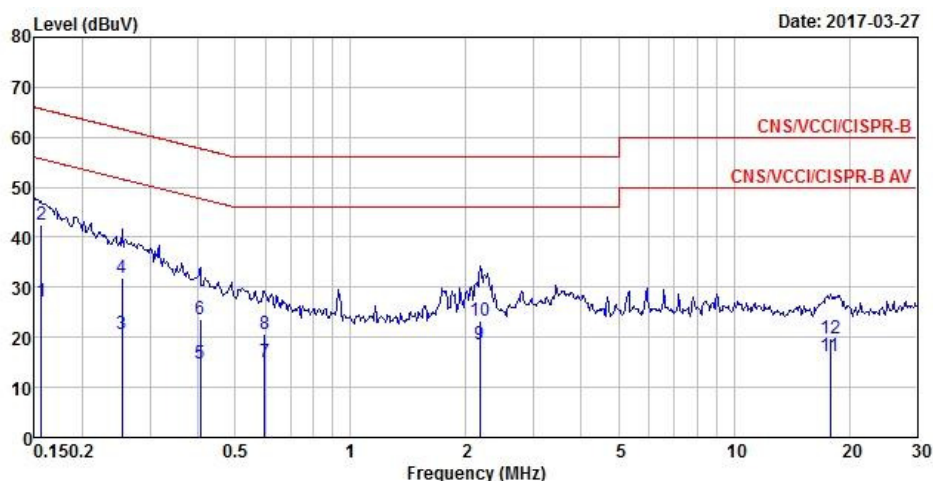


	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.16	27.60	-28.05	55.65	17.76	9.61	0.23	Average
2 MAX	0.16	42.24	-23.41	65.65	32.40	9.61	0.23	QP
3	0.22	18.91	-34.05	52.96	8.96	9.67	0.28	Average
4	0.22	33.46	-29.50	62.96	23.51	9.67	0.28	QP
5	0.28	19.48	-31.24	50.72	9.63	9.65	0.20	Average
6	0.28	31.56	-29.16	60.72	21.71	9.65	0.20	QP
7	0.52	18.21	-27.79	46.00	8.49	9.62	0.10	Average
8	0.52	22.72	-33.28	56.00	13.00	9.62	0.10	QP
9	2.18	21.84	-24.16	46.00	11.91	9.66	0.27	Average
10	2.18	29.36	-26.64	56.00	19.43	9.66	0.27	QP
11	18.82	19.29	-30.71	50.00	9.21	9.88	0.20	Average
12	18.82	23.63	-36.37	60.00	13.55	9.88	0.20	QP

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

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Adapter Mode		



	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.16	27.28	-28.37	55.65	17.39	9.66	0.23	Average
2 MAX	0.16	42.52	-23.13	65.65	32.63	9.66	0.23	QP
3	0.25	20.53	-31.11	51.64	10.64	9.66	0.23	Average
4	0.25	32.01	-29.63	61.64	22.12	9.66	0.23	QP
5	0.41	14.66	-33.07	47.73	4.88	9.68	0.10	Average
6	0.41	23.74	-33.99	57.73	13.96	9.68	0.10	QP
7	0.60	15.13	-30.87	46.00	5.37	9.66	0.10	Average
8	0.60	20.70	-35.30	56.00	10.94	9.66	0.10	QP
9	2.18	18.48	-27.52	46.00	8.42	9.79	0.27	Average
10	2.18	23.22	-32.78	56.00	13.16	9.79	0.27	QP
11	17.85	16.18	-33.82	50.00	6.11	9.87	0.20	Average
12	17.85	19.78	-40.22	60.00	9.71	9.87	0.20	QP

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

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

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-	-
2.4-2.4835GHz	756.25k	1.052M	1M05F1D	737.5k	1.046M

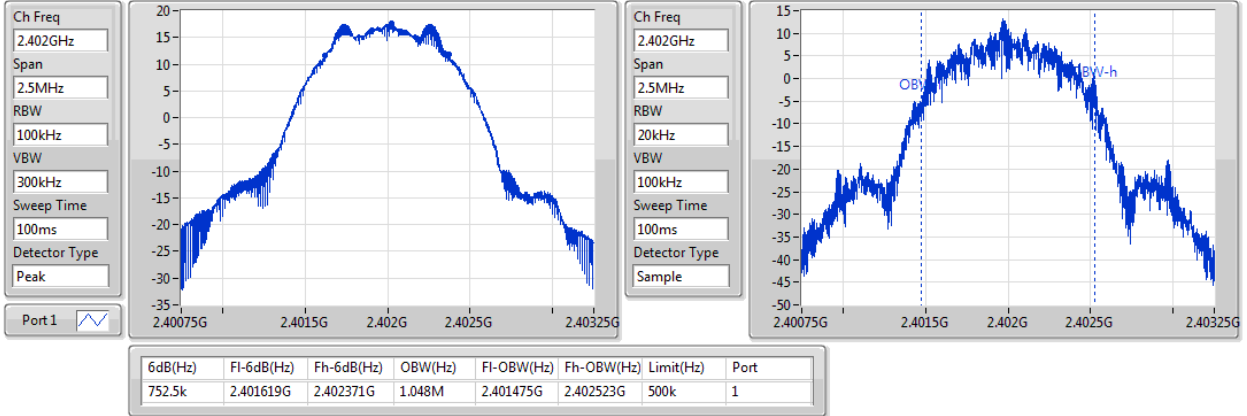
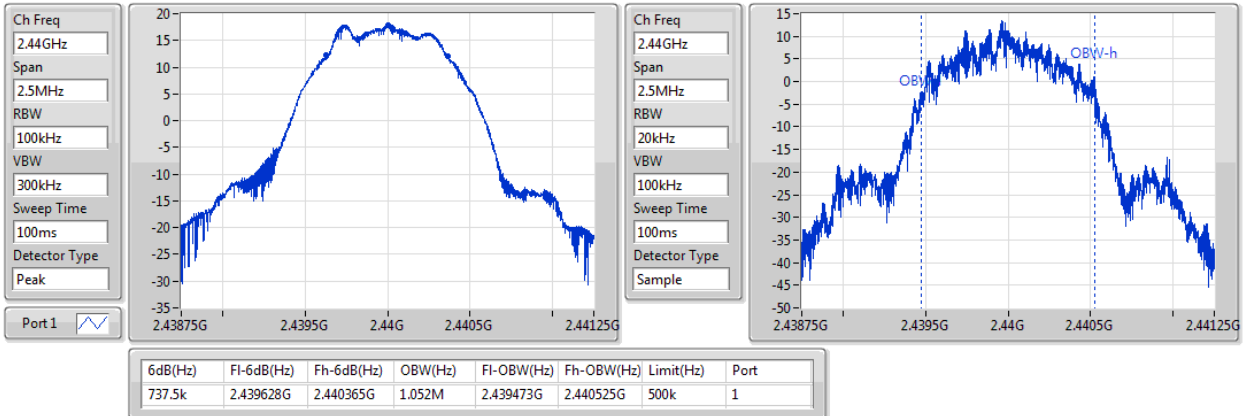
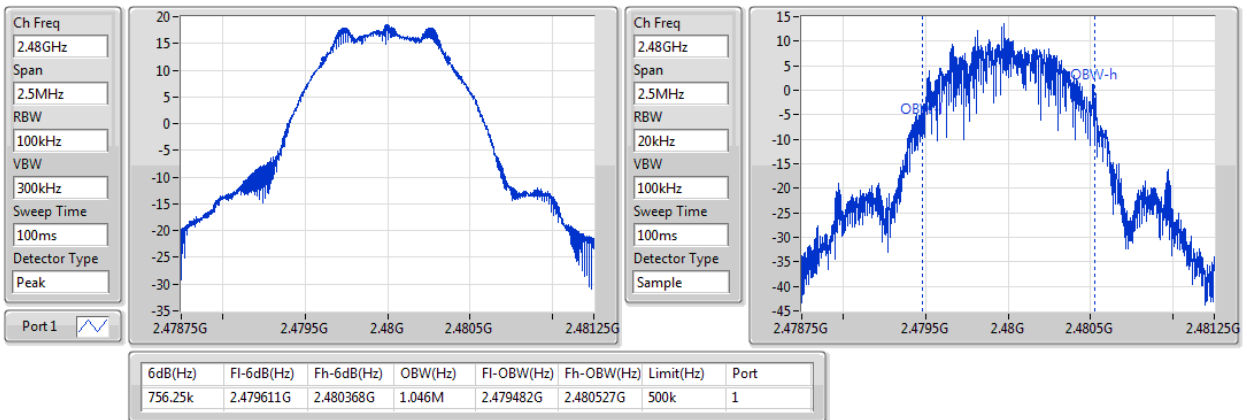
Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

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	752.5k	1.048M
2440MHz	Pass	500k	737.5k	1.052M
2480MHz	Pass	500k	756.25k	1.046M

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

BT-LE(1Mbps)
EBW
2402MHz

BT-LE(1Mbps)
EBW
2440MHz

BT-LE(1Mbps)
EBW
2480MHz


Summary

Mode	Power (dBm)	Power (W)
BT-LE(1Mbps)	-	-
2.4-2.4835GHz	3.02	0.002

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	4.41	2.92	30.00
2440MHz_TnomVnom	Pass	4.41	3.02	30.00
2480MHz_TnomVnom	Pass	4.41	2.87	30.00

Summary

Mode	Power	Power
	(dBm)	(W)
BT-LE(1Mbps)	-	-
2.4-2.4835GHz	2.34	0.00171

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	4.41	2.23	30.00
2440MHz_TnomVnom	Pass	4.41	2.34	30.00
2480MHz_TnomVnom	Pass	4.41	2.20	30.00

Summary

Mode	PD (dBm/RBW)
BT-LE(1Mbps)	-
2.4-2.4835GHz	-8.89

RBW=3kHz.

Result

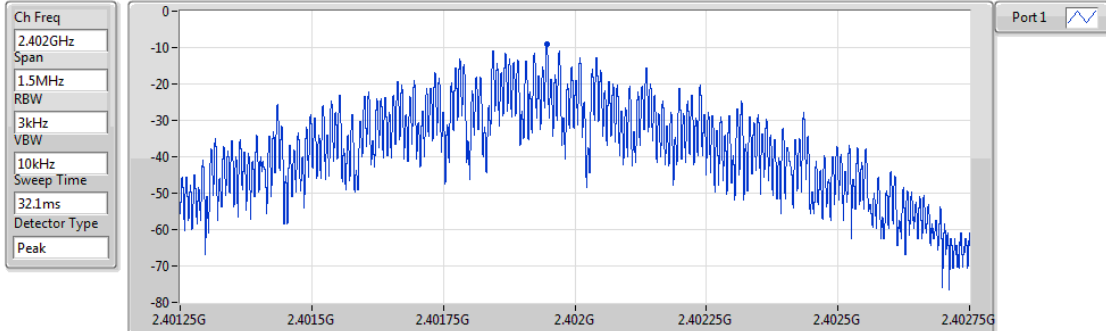
Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	4.41	-8.94	8.00
2440MHz_TnomVnom	Pass	4.41	-8.89	8.00
2480MHz_TnomVnom	Pass	4.41	-9.09	8.00

RBW=3kHz.

BT-LE(1Mbps)

PSD

2402MHz

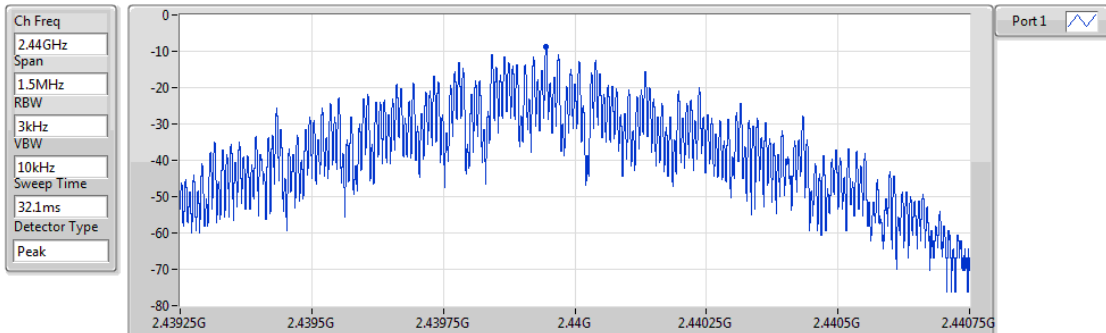


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.94	-8.94	-8.94

BT-LE(1Mbps)

PSD

2440MHz

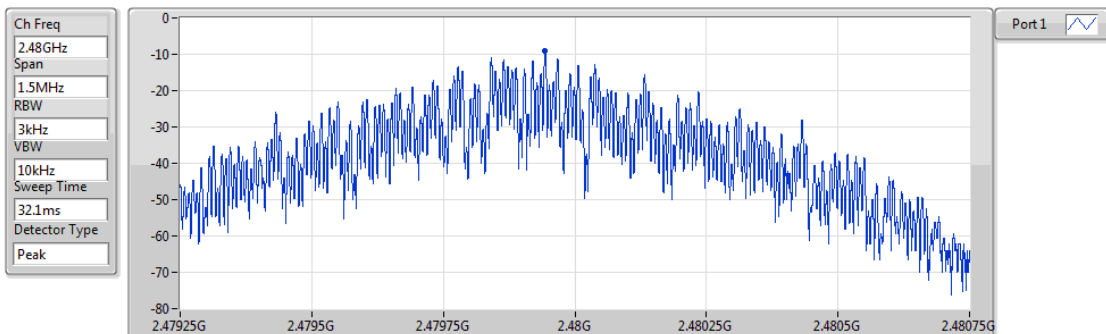


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.89	-8.89	-8.89

BT-LE(1Mbps)

PSD

2480MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.09	-9.09	-9.09

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	2.439913G	0.87	-19.13	2.19672G	-59.98	2.399876G	-48.82	2.48352G	-59.91	2.519272G	-48.80	1

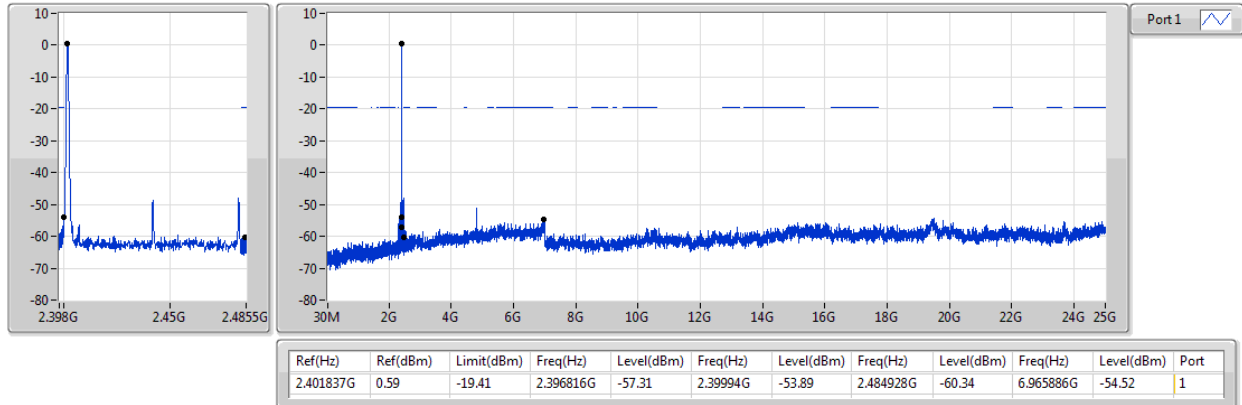
Result

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_TnomVnom	Pass	2.401837G	0.59	-19.41	2.396816G	-57.31	2.39994G	-53.89	2.484928G	-60.34	6.965886G	-54.52	1
2440MHz_TnomVnom	Pass	2.439913G	0.87	-19.13	2.19672G	-59.98	2.399876G	-48.82	2.48352G	-59.91	2.519272G	-48.80	1
2480MHz_TnomVnom	Pass	2.479993G	0.48	-19.52	2.308016G	-61.44	2.399912G	-51.65	2.483876G	-58.38	2.519272G	-51.25	1

BT-LE(1Mbps)

CSE NdB

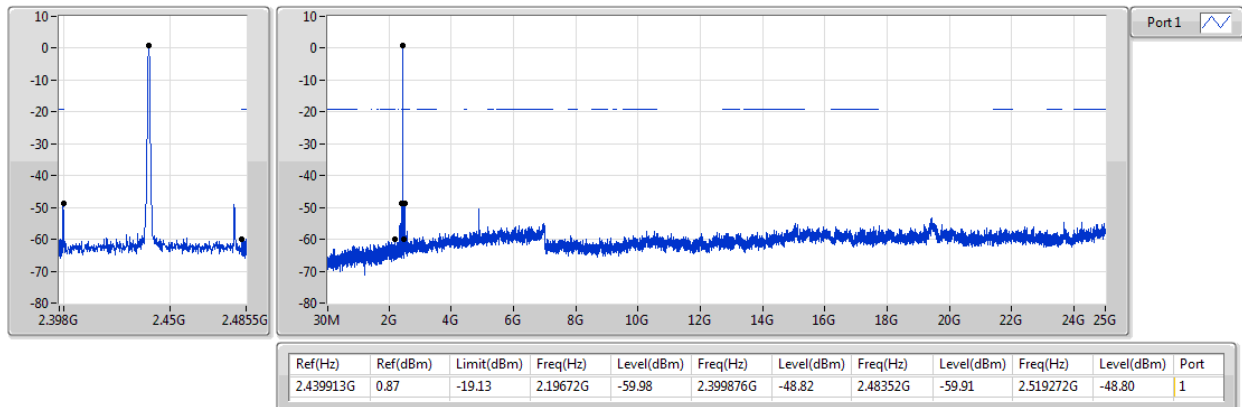
2402MHz



BT-LE(1Mbps)

CSE NdB

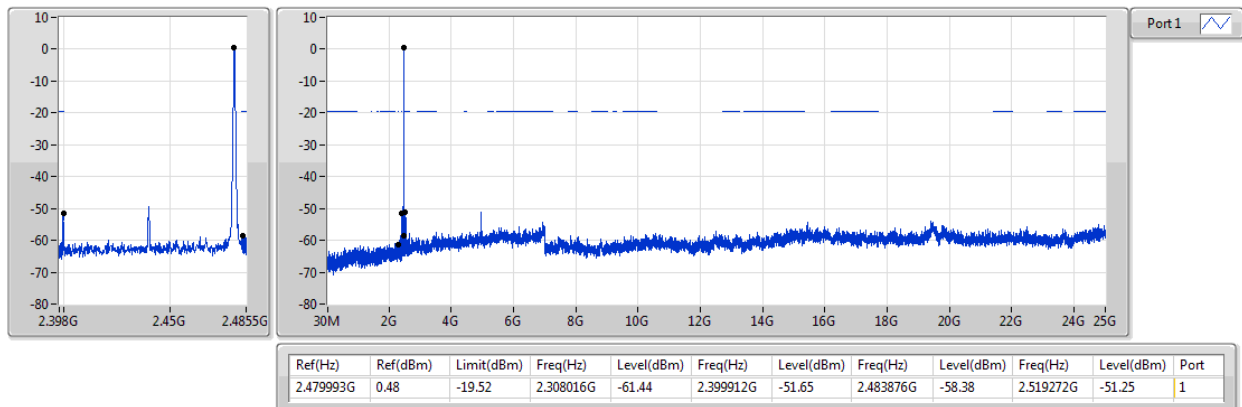
2440MHz



BT-LE(1Mbps)

CSE NdB

2480MHz





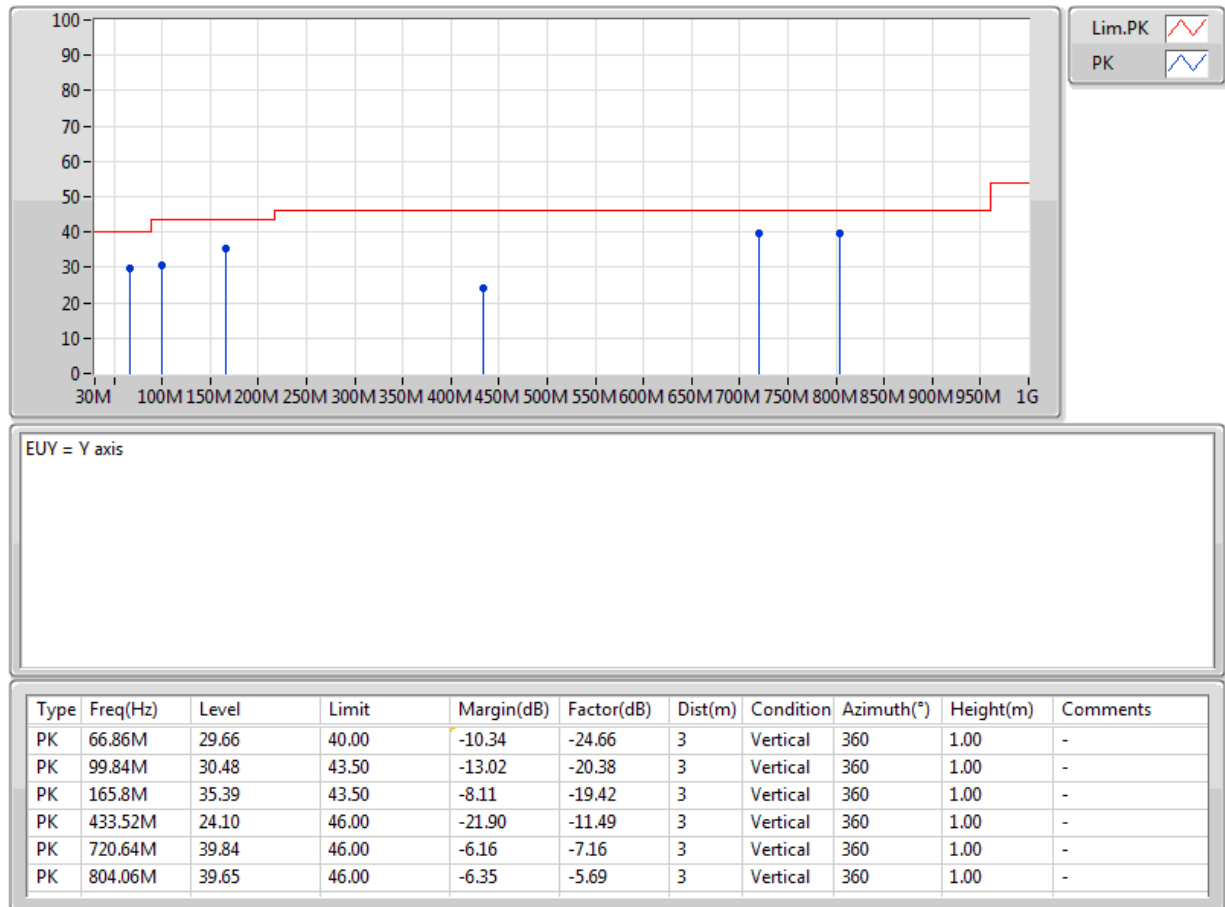
Summary

Mode	Result	Type	Freq (Hz)	Level	Limit	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode1	Pass	PK	720.64M	40.20	46.00	-5.80	-7.16	3	Horizontal	0	2.00	-
Mode2	Pass	PK	720.64M	41.06	46.00	-4.94	-7.16	3	Vertical	360	1.00	-

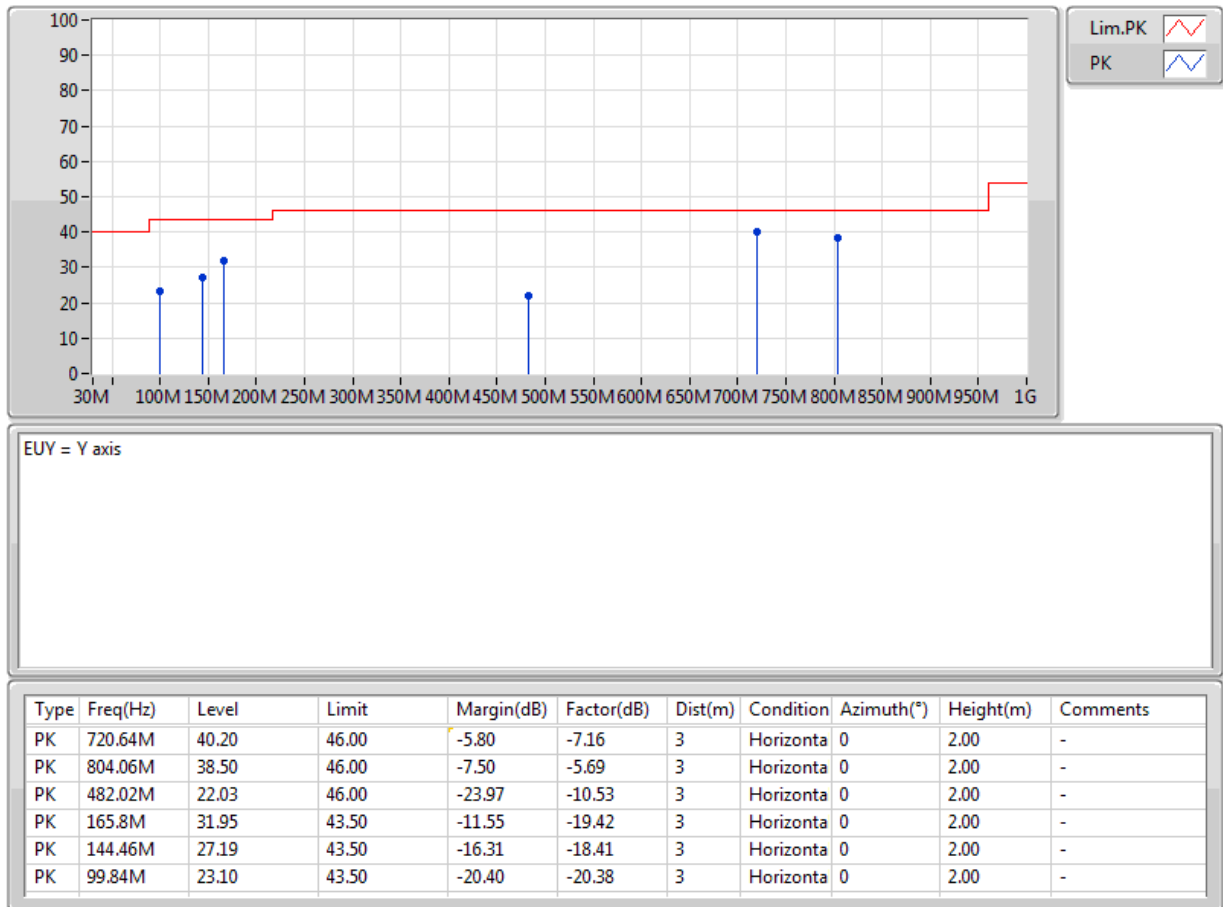
Result

Mode	Result	Type	Freq (Hz)	Level	Limit	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode1	Pass	PK	99.84M	23.10	43.50	-20.40	-20.38	3	Horizontal	0	2.00	-
Mode1	Pass	PK	144.46M	27.19	43.50	-16.31	-18.41	3	Horizontal	0	2.00	-
Mode1	Pass	PK	165.8M	31.95	43.50	-11.55	-19.42	3	Horizontal	0	2.00	-
Mode1	Pass	PK	482.02M	22.03	46.00	-23.97	-10.53	3	Horizontal	0	2.00	-
Mode1	Pass	PK	720.64M	40.20	46.00	-5.80	-7.16	3	Horizontal	0	2.00	-
Mode1	Pass	PK	804.06M	38.50	46.00	-7.50	-5.69	3	Horizontal	0	2.00	-
Mode1	Pass	PK	66.86M	29.66	40.00	-10.34	-24.66	3	Vertical	360	1.00	-
Mode1	Pass	PK	99.84M	30.48	43.50	-13.02	-20.38	3	Vertical	360	1.00	-
Mode1	Pass	PK	165.8M	35.39	43.50	-8.11	-19.42	3	Vertical	360	1.00	-
Mode1	Pass	PK	433.52M	24.10	46.00	-21.90	-11.49	3	Vertical	360	1.00	-
Mode1	Pass	PK	720.64M	39.84	46.00	-6.16	-7.16	3	Vertical	360	1.00	-
Mode1	Pass	PK	804.06M	39.65	46.00	-6.35	-5.69	3	Vertical	360	1.00	-
Mode2	Pass	PK	99.84M	23.34	43.50	-20.16	-20.38	3	Horizontal	0	2.00	-
Mode2	Pass	PK	144.46M	27.33	43.50	-16.17	-18.41	3	Horizontal	0	2.00	-
Mode2	Pass	PK	165.8M	32.74	43.50	-10.76	-19.42	3	Horizontal	0	2.00	-
Mode2	Pass	PK	342.34M	27.92	46.00	-18.08	-14.36	3	Horizontal	0	2.00	-
Mode2	Pass	PK	720.64M	35.09	46.00	-10.91	-7.16	3	Horizontal	0	2.00	-
Mode2	Pass	PK	804.06M	38.61	46.00	-7.39	-5.69	3	Horizontal	0	2.00	-
Mode2	Pass	PK	66.86M	29.86	40.00	-10.14	-24.66	3	Vertical	360	1.00	-
Mode2	Pass	PK	97.9M	29.50	43.50	-14.00	-20.60	3	Vertical	360	1.00	-
Mode2	Pass	PK	165.8M	35.96	43.50	-7.54	-19.42	3	Vertical	360	1.00	-
Mode2	Pass	PK	480.08M	33.54	46.00	-12.46	-10.56	3	Vertical	360	1.00	-
Mode2	Pass	PK	720.64M	41.06	46.00	-4.94	-7.16	3	Vertical	360	1.00	-
Mode2	Pass	PK	804.06M	37.04	46.00	-8.96	-5.69	3	Vertical	360	1.00	-

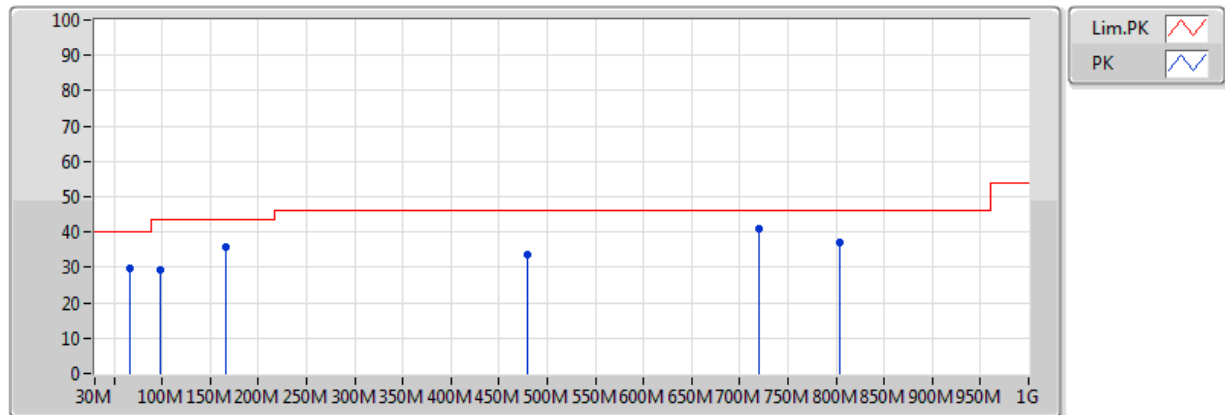
Radiated-below 1GHz_Mode1



Radiated-below 1GHz_Mode1



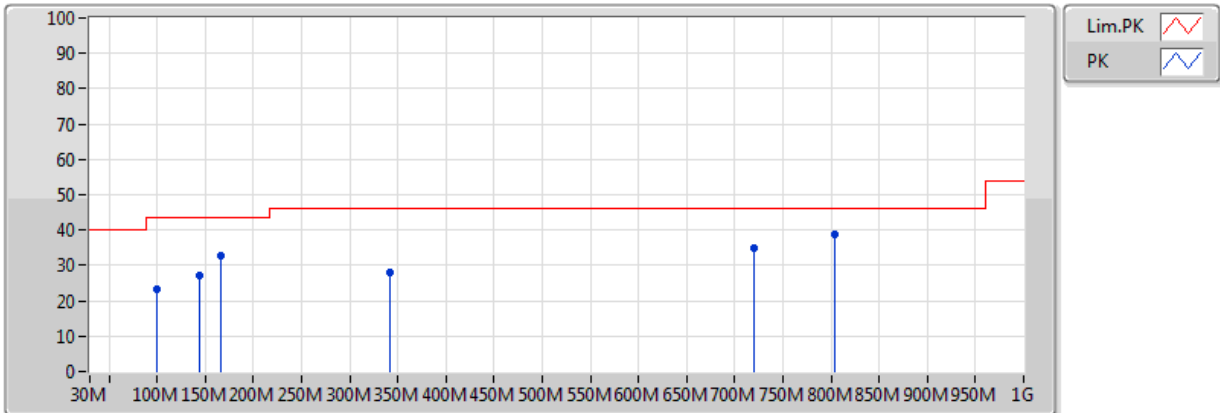
Radiated-below 1GHz_Mode2



EUJ = Z axis

Type	Freq(Hz)	Level	Limit	Margin(dB)	Factor(dB)	Dist(m)	Condition	Azimuth(°)	Height(m)	Comments
PK	66.86M	29.86	40.00	-10.14	-24.66	3	Vertical	360	1.00	-
PK	97.9M	29.50	43.50	-14.00	-20.60	3	Vertical	360	1.00	-
PK	165.8M	35.96	43.50	-7.54	-19.42	3	Vertical	360	1.00	-
PK	480.08M	33.54	46.00	-12.46	-10.56	3	Vertical	360	1.00	-
PK	720.64M	41.06	46.00	-4.94	-7.16	3	Vertical	360	1.00	-
PK	804.06M	37.04	46.00	-8.96	-5.69	3	Vertical	360	1.00	-

Radiated-below 1GHz_Mode2



EUY = Z axis

Type	Freq(Hz)	Level	Limit	Margin(dB)	Factor(dB)	Dist(m)	Condition	Azimuth(°)	Height(m)	Comments
PK	99.84M	23.34	43.50	-20.16	-20.38	3	Horizontal	0	2.00	-
PK	144.46M	27.33	43.50	-16.17	-18.41	3	Horizontal	0	2.00	-
PK	165.8M	32.74	43.50	-10.76	-19.42	3	Horizontal	0	2.00	-
PK	342.34M	27.92	46.00	-18.08	-14.36	3	Horizontal	0	2.00	-
PK	720.64M	35.09	46.00	-10.91	-7.16	3	Horizontal	0	2.00	-
PK	804.06M	38.61	46.00	-7.39	-5.69	3	Horizontal	0	2.00	-

Summary

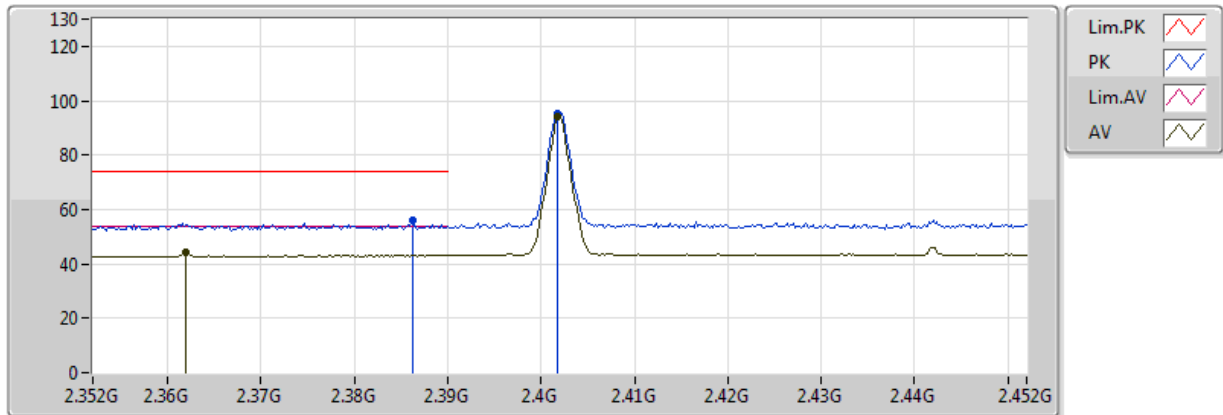
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	AV	2.483502G	44.66	54.00	-9.34	31.07	3	V	183	1.03	-

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	2.48G	96.63	Inf	-Inf	31.06	3	H	310	1.15	-
2402MHz	Pass	AV	2.483502G	44.61	54.00	-9.39	31.07	3	H	310	1.15	-
2402MHz	Pass	PK	2.4798G	97.53	Inf	-Inf	31.06	3	H	310	1.15	-
2402MHz	Pass	PK	2.487G	55.76	74.00	-18.24	31.09	3	H	310	1.15	-
2402MHz	Pass	AV	2.4798G	95.96	Inf	-Inf	31.06	3	V	183	1.03	-
2402MHz	Pass	AV	2.483502G	44.66	54.00	-9.34	31.07	3	V	183	1.03	-
2402MHz	Pass	PK	2.4798G	96.85	Inf	-Inf	31.06	3	V	183	1.03	-
2402MHz	Pass	PK	2.4982G	54.91	74.00	-19.09	31.12	3	V	183	1.03	-
2402MHz	Pass	AV	4.96G	32.82	54.00	-21.18	2.41	3	H	226	1.50	-
2402MHz	Pass	PK	4.96G	45.51	74.00	-28.49	2.41	3	H	226	1.50	-
2402MHz	Pass	AV	4.96G	33.21	54.00	-20.79	2.41	3	V	335	3.38	-
2402MHz	Pass	PK	4.96G	45.19	74.00	-28.81	2.41	3	V	335	3.38	-
2440MHz	Pass	AV	2.3828G	43.08	54.00	-10.92	30.73	3	H	16	1.15	-
2440MHz	Pass	AV	2.44G	96.13	Inf	-Inf	30.93	3	H	16	1.15	-
2440MHz	Pass	AV	2.4992G	43.78	54.00	-10.22	31.13	3	H	16	1.15	-
2440MHz	Pass	PK	2.3856G	54.61	74.00	-19.39	30.74	3	H	16	1.15	-
2440MHz	Pass	PK	2.44G	97.00	Inf	-Inf	30.93	3	H	16	1.15	-
2440MHz	Pass	PK	2.4996G	56.00	74.00	-18.00	31.13	3	H	16	1.15	-
2440MHz	Pass	AV	2.36G	43.18	54.00	-10.82	30.66	3	V	79	1.67	-
2440MHz	Pass	AV	2.44G	93.98	Inf	-Inf	30.93	3	V	79	1.67	-
2440MHz	Pass	AV	2.4904G	43.92	54.00	-10.08	31.10	3	V	79	1.67	-
2440MHz	Pass	PK	2.36G	54.00	74.00	-20.00	30.66	3	V	79	1.67	-
2440MHz	Pass	PK	2.4396G	94.86	Inf	-Inf	30.92	3	V	79	1.67	-
2440MHz	Pass	PK	2.486G	54.80	74.00	-19.20	31.08	3	V	79	1.67	-
2440MHz	Pass	AV	4.88G	34.66	54.00	-19.34	2.19	3	H	90	1.02	-
2440MHz	Pass	PK	4.88G	45.51	74.00	-28.49	2.19	3	H	90	1.02	-
2440MHz	Pass	AV	4.88G	32.89	54.00	-21.11	2.19	3	V	103	1.01	-
2440MHz	Pass	PK	4.88G	44.94	74.00	-29.06	2.19	3	V	103	1.01	-
2480MHz	Pass	AV	2.48G	96.63	Inf	-Inf	31.06	3	H	310	1.15	-
2480MHz	Pass	AV	2.483502G	44.61	54.00	-9.39	31.07	3	H	310	1.15	-
2480MHz	Pass	PK	2.4798G	97.53	Inf	-Inf	31.06	3	H	310	1.15	-
2480MHz	Pass	PK	2.487G	55.76	74.00	-18.24	31.09	3	H	310	1.15	-
2480MHz	Pass	AV	2.4798G	95.96	Inf	-Inf	31.06	3	V	183	1.03	-
2480MHz	Pass	AV	2.483502G	44.66	54.00	-9.34	31.07	3	V	183	1.03	-
2480MHz	Pass	PK	2.4798G	96.85	Inf	-Inf	31.06	3	V	183	1.03	-
2480MHz	Pass	PK	2.4982G	54.91	74.00	-19.09	31.12	3	V	183	1.03	-
2480MHz	Pass	AV	4.96G	32.82	54.00	-21.18	2.41	3	H	226	1.50	-
2480MHz	Pass	PK	4.96G	45.51	74.00	-28.49	2.41	3	H	226	1.50	-
2480MHz	Pass	AV	4.96G	33.21	54.00	-20.79	2.41	3	V	335	3.38	-
2480MHz	Pass	PK	4.96G	45.19	74.00	-28.81	2.41	3	V	335	3.38	-

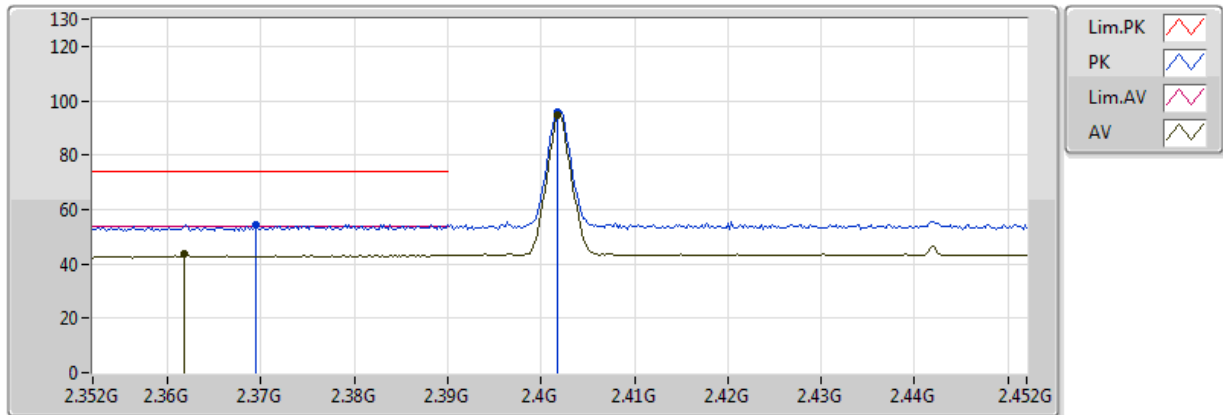
BT-LE(1Mbps)

2402MHz_TX



Eut = Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4018G	94.31	Inf	-Inf	30.80	3	V	79	1.53	-
AV	2.362G	44.32	54.00	-9.68	30.66	3	V	79	1.53	-
PK	2.4018G	95.19	Inf	-Inf	30.80	3	V	79	1.53	-
PK	2.3862G	55.79	74.00	-18.21	30.74	3	V	79	1.53	-

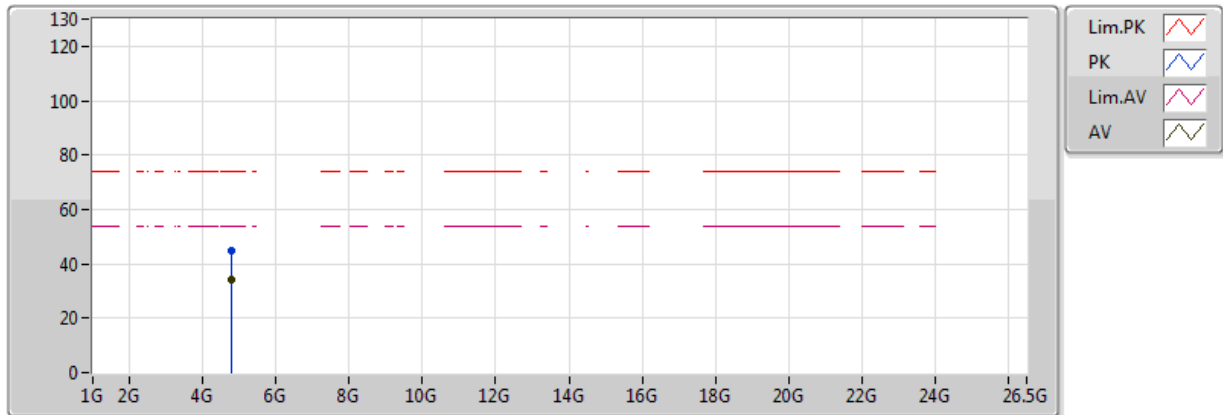
BT-LE(1Mbps)
2402MHz_TX


Eut = Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3618G	43.54	54.00	-10.46	30.66	3	H	28	1.10	-
AV	2.4018G	94.84	Inf	-Inf	30.80	3	H	28	1.10	-
PK	2.3694G	54.57	74.00	-19.43	30.69	3	H	28	1.10	-
PK	2.4018G	95.74	Inf	-Inf	30.80	3	H	28	1.10	-

BT-LE(1Mbps)

2402MHz_TX

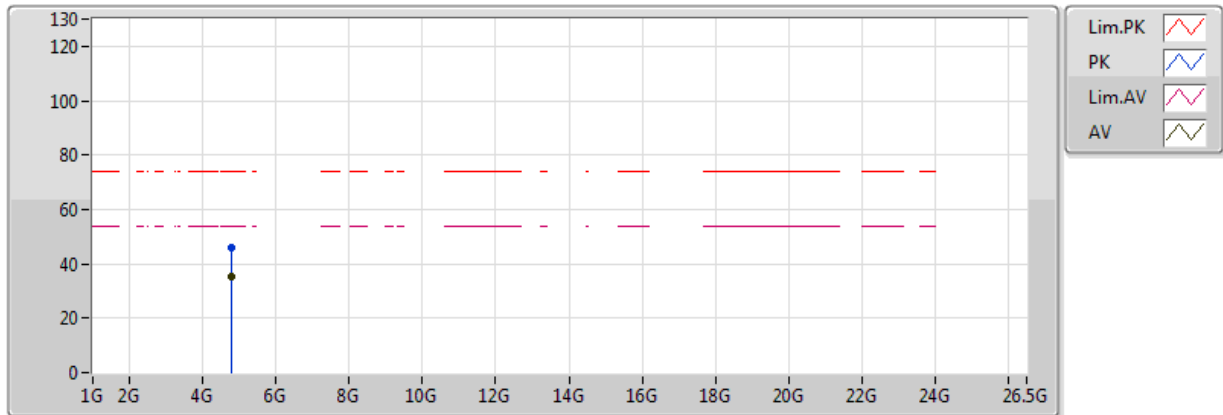


Eut = Z axis

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	34.03	54.00	-19.97	1.98	3	V	100	1.06	-
PK	4.804G	44.97	74.00	-29.03	1.98	3	V	100	1.06	-

BT-LE(1Mbps)

2402MHz_TX

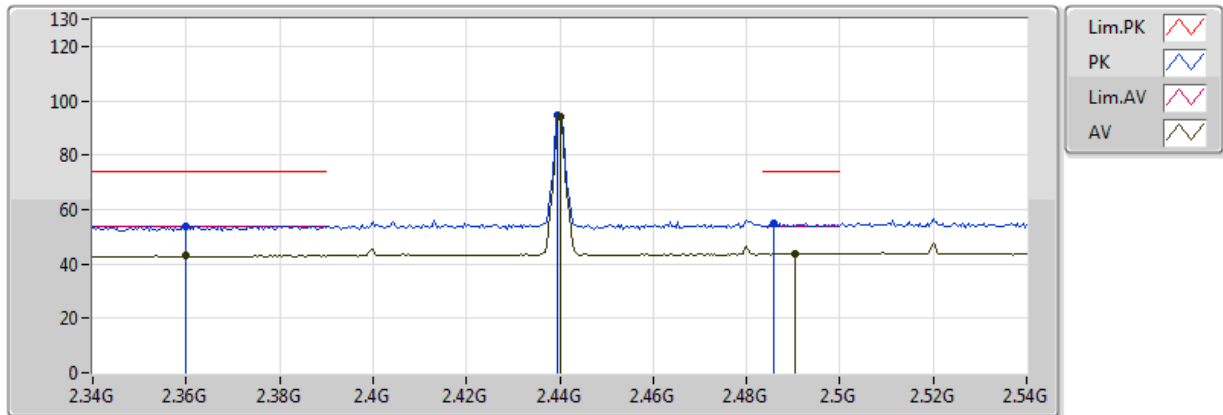


Eut = Z axis

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	35.53	54.00	-18.47	1.98	3	H	91	1.02	-
PK	4.804G	45.95	74.00	-28.05	1.98	3	H	91	1.02	-

BT-LE(1Mbps)

2440MHz_TX

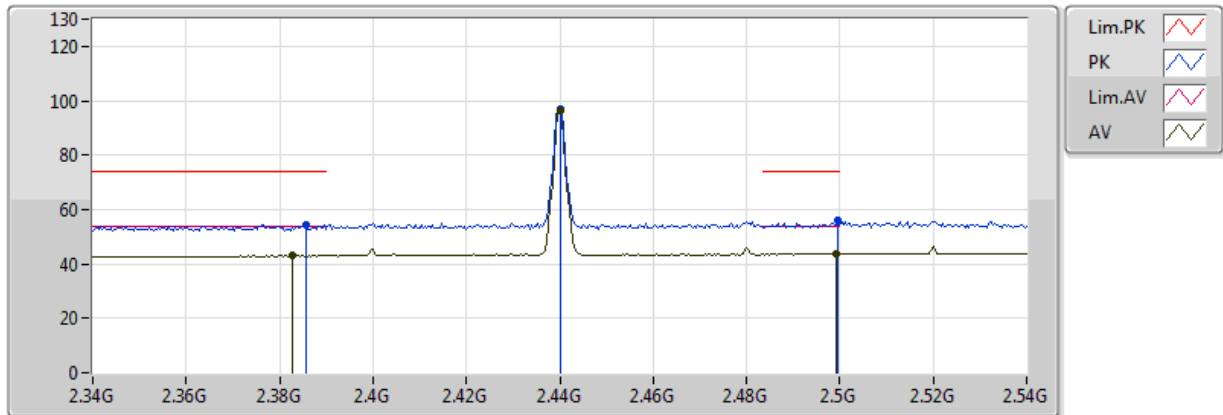


Eut = Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.36G	43.18	54.00	-10.82	30.66	3	V	79	1.67	-
AV	2.44G	93.98	Inf	-Inf	30.93	3	V	79	1.67	-
AV	2.4904G	43.92	54.00	-10.08	31.10	3	V	79	1.67	-
PK	2.36G	54.00	74.00	-20.00	30.66	3	V	79	1.67	-
PK	2.4396G	94.86	Inf	-Inf	30.92	3	V	79	1.67	-
PK	2.486G	54.80	74.00	-19.20	31.08	3	V	79	1.67	-

BT-LE(1Mbps)

2440MHz_TX

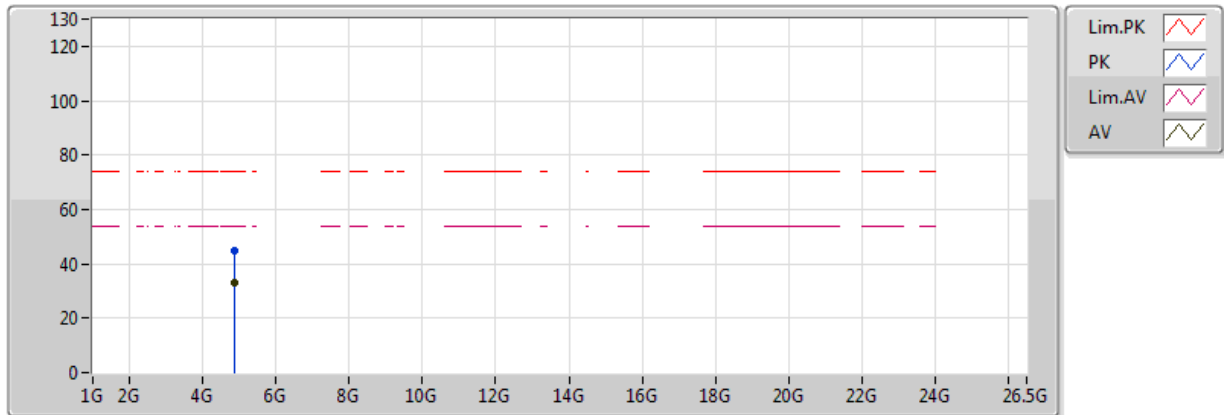


Eut = Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3828G	43.08	54.00	-10.92	30.73	3	H	16	1.15	-
AV	2.44G	96.13	Inf	-Inf	30.93	3	H	16	1.15	-
AV	2.4992G	43.78	54.00	-10.22	31.13	3	H	16	1.15	-
PK	2.3856G	54.61	74.00	-19.39	30.74	3	H	16	1.15	-
PK	2.44G	97.00	Inf	-Inf	30.93	3	H	16	1.15	-
PK	2.4996G	56.00	74.00	-18.00	31.13	3	H	16	1.15	-

BT-LE(1Mbps)

2440MHz_TX

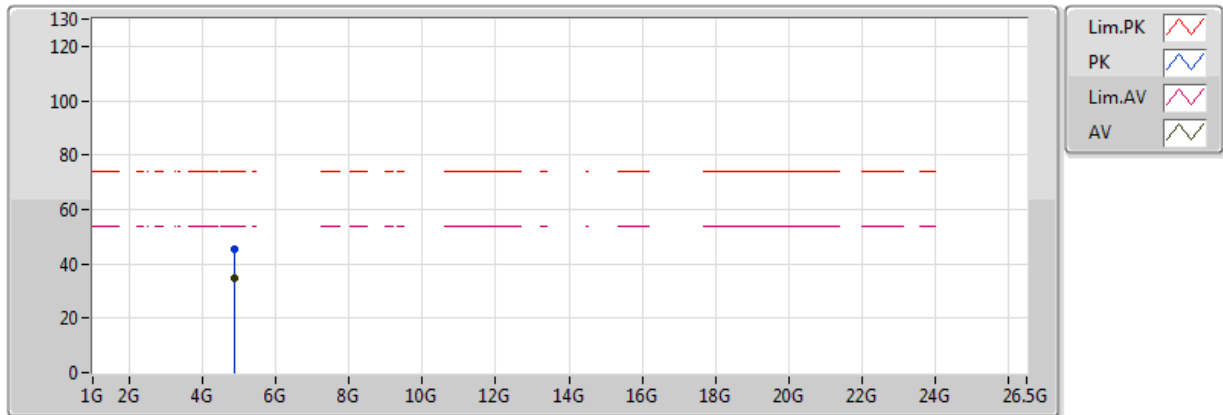


Eut = Z axis

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	32.89	54.00	-21.11	2.19	3	V	103	1.01	-
PK	4.88G	44.94	74.00	-29.06	2.19	3	V	103	1.01	-

BT-LE(1Mbps)

2440MHz_TX

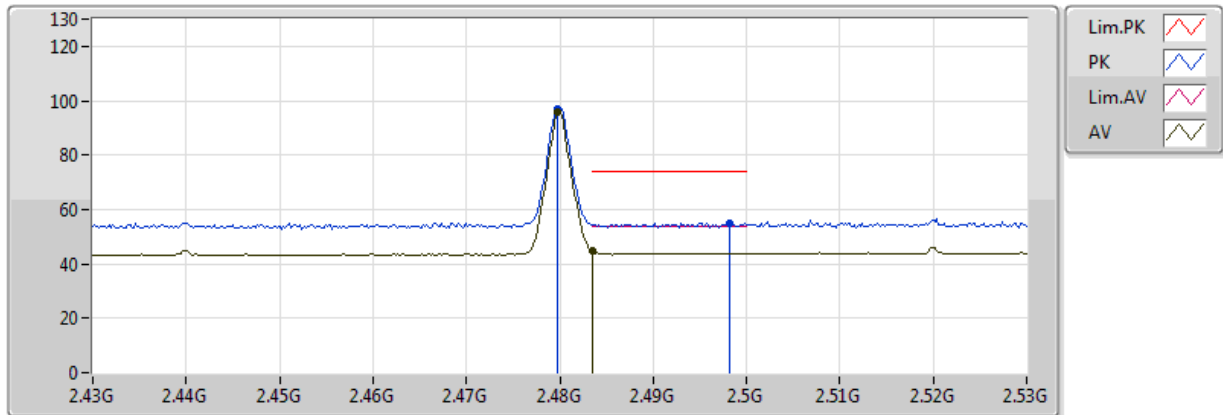


Eut = Z axis

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	34.66	54.00	-19.34	2.19	3	H	90	1.02	-
PK	4.88G	45.51	74.00	-28.49	2.19	3	H	90	1.02	-

BT-LE(1Mbps)

2480MHz_TX

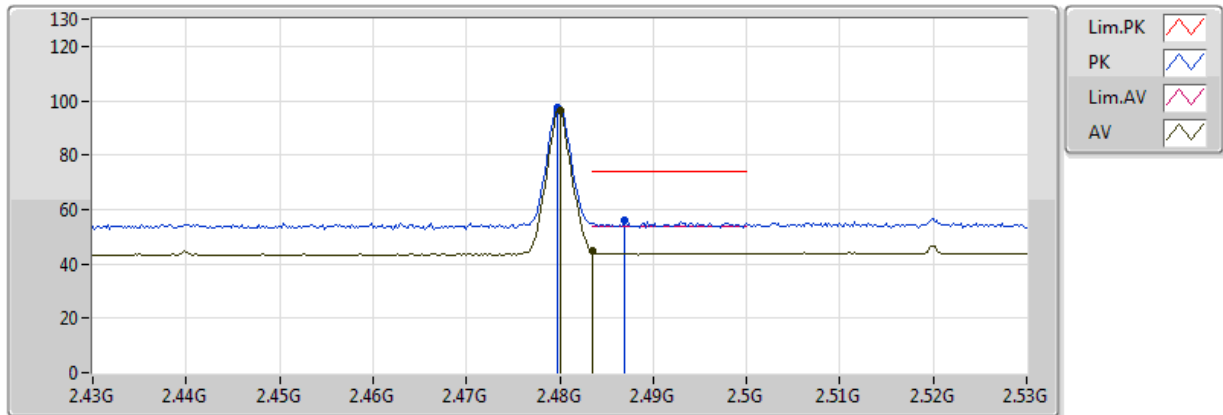


Eut = Z axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.4798G	95.96	Inf	-Inf	31.06	3	V	183	1.03	-
AV	2.483502G	44.66	54.00	-9.34	31.07	3	V	183	1.03	-
PK	2.4798G	96.85	Inf	-Inf	31.06	3	V	183	1.03	-
PK	2.4982G	54.91	74.00	-19.09	31.12	3	V	183	1.03	-

BT-LE(1Mbps)

2480MHz_TX

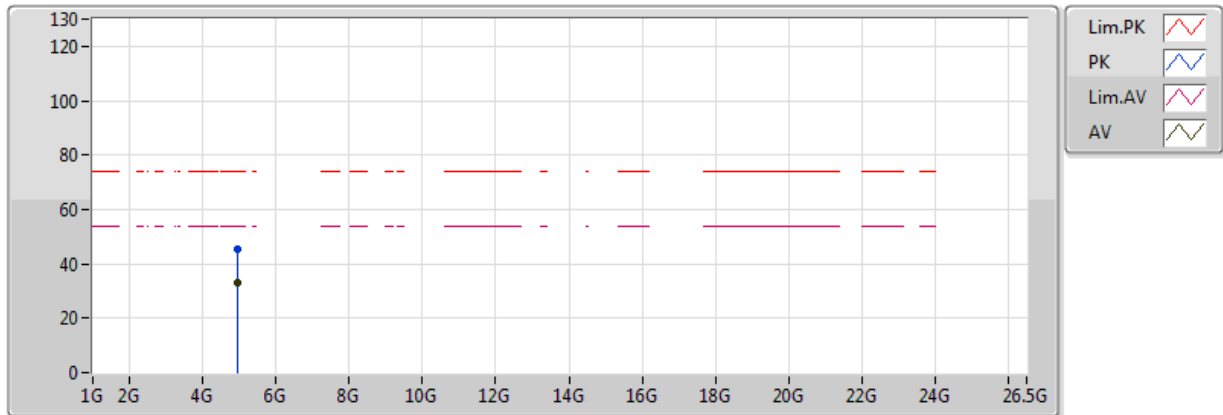


Eut = Z axis

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	96.63	Inf	-Inf	31.06	3	H	310	1.15	-
AV	2.483502G	44.61	54.00	-9.39	31.07	3	H	310	1.15	-
PK	2.4798G	97.53	Inf	-Inf	31.06	3	H	310	1.15	-
PK	2.487G	55.76	74.00	-18.24	31.09	3	H	310	1.15	-

BT-LE(1Mbps)

2480MHz_TX

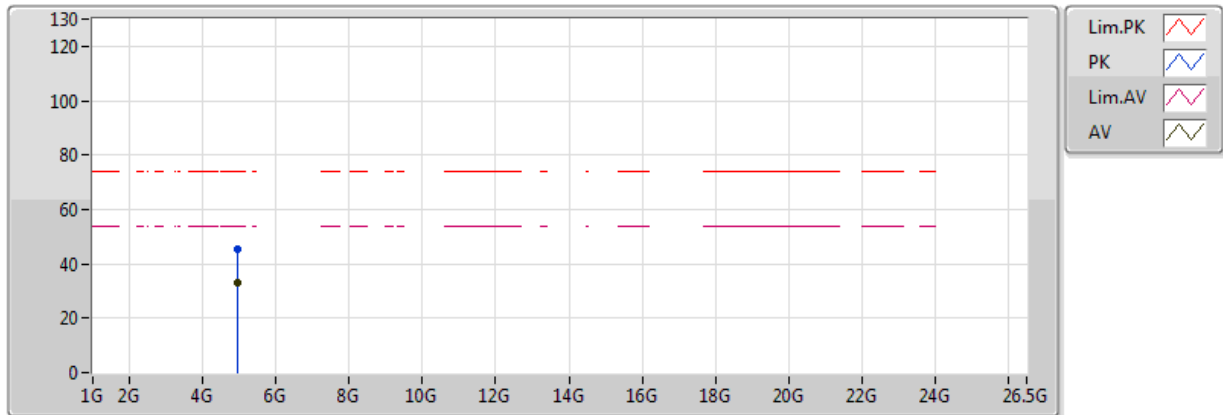


Eut = Z axis

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	33.21	54.00	-20.79	2.41	3	V	335	3.38	-
PK	4.96G	45.19	74.00	-28.81	2.41	3	V	335	3.38	-

BT-LE(1Mbps)

2480MHz_TX



Eut = Z 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	32.82	54.00	-21.18	2.41	3	H	226	1.50	-
PK	4.96G	45.51	74.00	-28.49	2.41	3	H	226	1.50	-