

FCC Test Report

FCC ID : H8N-ASK-STI6220
Equipment : Stream TV
Brand Name : Verizon
Model Name : ASK-STI6220
Applicant : Askey Computer Corp.
10F, No.119, Jiankang Road, Zhonghe Dist., New
Taipei City, Taiwan
Manufacturer : Askey Computer Corp.
10F, No.119, Jiankang Road, Zhonghe Dist., New
Taipei City, Taiwan
Standard : 47 CFR FCC Part 15.247

The product was received on Sep. 10, 2020, and testing was started from Sep. 10, 2020 and completed on Sep. 24, 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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History of this test report

[illegible]

Summary of Test Result

Report Clause	Ref.Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	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: Debby Hung

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)	1.0	1TX
2.4-2.4835GHz	BT-LE(2Mbps)	2.0	1TX

Note:

- Bluetooth LE uses a GFSK (1Mbps/2Mbps) modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	INPAQ	RFMTA250900NNLB002	PIFA antenna	N/A
2	INPAQ	RFMTA250900NNLB002	PIFA antenna	N/A

Ant.	Port	Gain (dBi)		
		2.4G	5G	BT
1	1	1.41	1.41	1.41
2	2	1.86	0.83	-

Note 1: The EUT has two antennas.

For 2.4GHz function:

For IEEE 802.11 b/g mode (1TX/1RX)

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

For IEEE 802.11 n/ax mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For BT function:

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

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

For 5GHz function:

For IEEE 802.11 a mode (1TX/1RX)

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

For IEEE 802.11 n/ac/ax mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

1.1.3 EUT Information

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

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
BT-LE(1Mbps)	0.607	2.17	379.063u	3k
BT-LE(2Mbps)	0.312	5.06	195.313u	10k

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

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

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
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 site Designation No. TW0006 with FCC.			
☐	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 site Designation No. TW1097 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward Wang	22.8~23.6°C / 56~60%	24/Sep/2020
RF Conducted	TH06-HY	Alan Chien	20.1~26.9°C / 50~60%	10/Sep/2020~19/Sep/2020
Radiated	03CH02-HY	Daniel Lin	20.0~25.6°C / 51~62%	09/Sep/2020~23/Sep/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	120V

2.2 Test Channel Mode

Test Software Version	Dos1.6
-----------------------	--------

Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	Default
2440MHz	Default
2480MHz	Default
BT-LE(2Mbps)	-
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	CTX
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	CTX		
1	Adapter mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	Bluetooth+WLAN 2.4GHz+WLAN 5GHz
Refer to Sporton Test Report No.: FA091025 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.4 Accessories

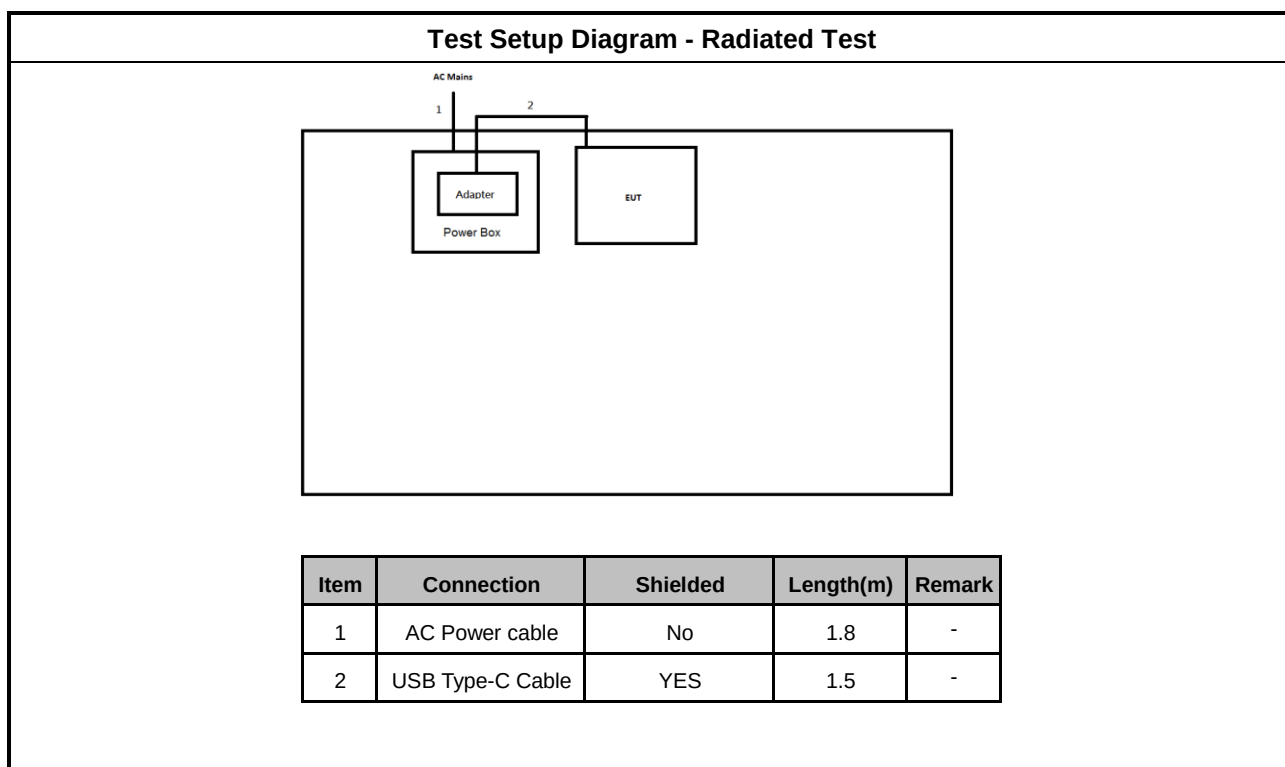
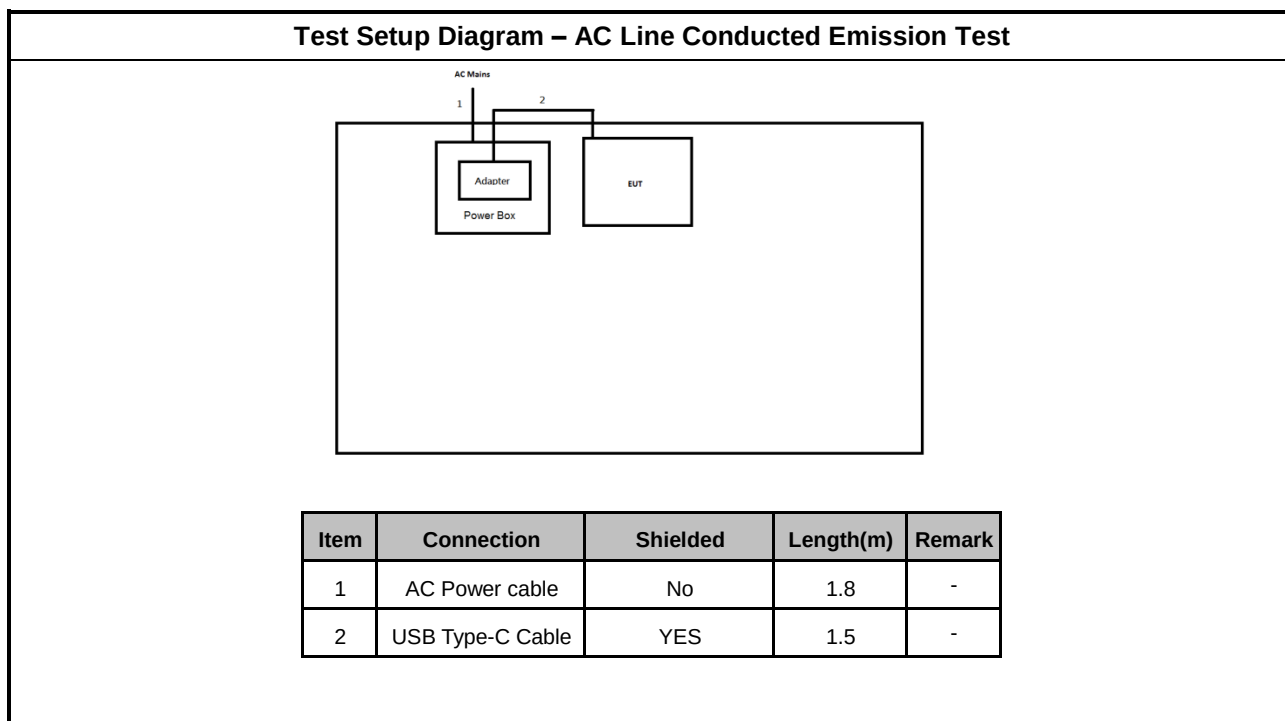
Accessories				
AC Adapter (US Plug)	Brand Name	LEI	Model Name	MU10AE050200UA1
	Power Rating	I/P: 100 - 240 Vac, 0.3 A, O/P: 5.0 Vdc, 2.0 A		
HDMI Cable	Brand Name	HANRICO	Model Name	26A1810005
	Signal Line	1.0 meter, Shielded cable, w/o ferrite core		
USB Type-C Cable	Brand Name	HANRICO	Model Name	26A1810004
	Signal Line	1.5 meter, Shielded cable, w/o ferrite core		
Remote Controller	Brand Name	Omni	Model Name	RC4513101

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

2.5 Support Equipment

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

2.6 Test Setup Diagram



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

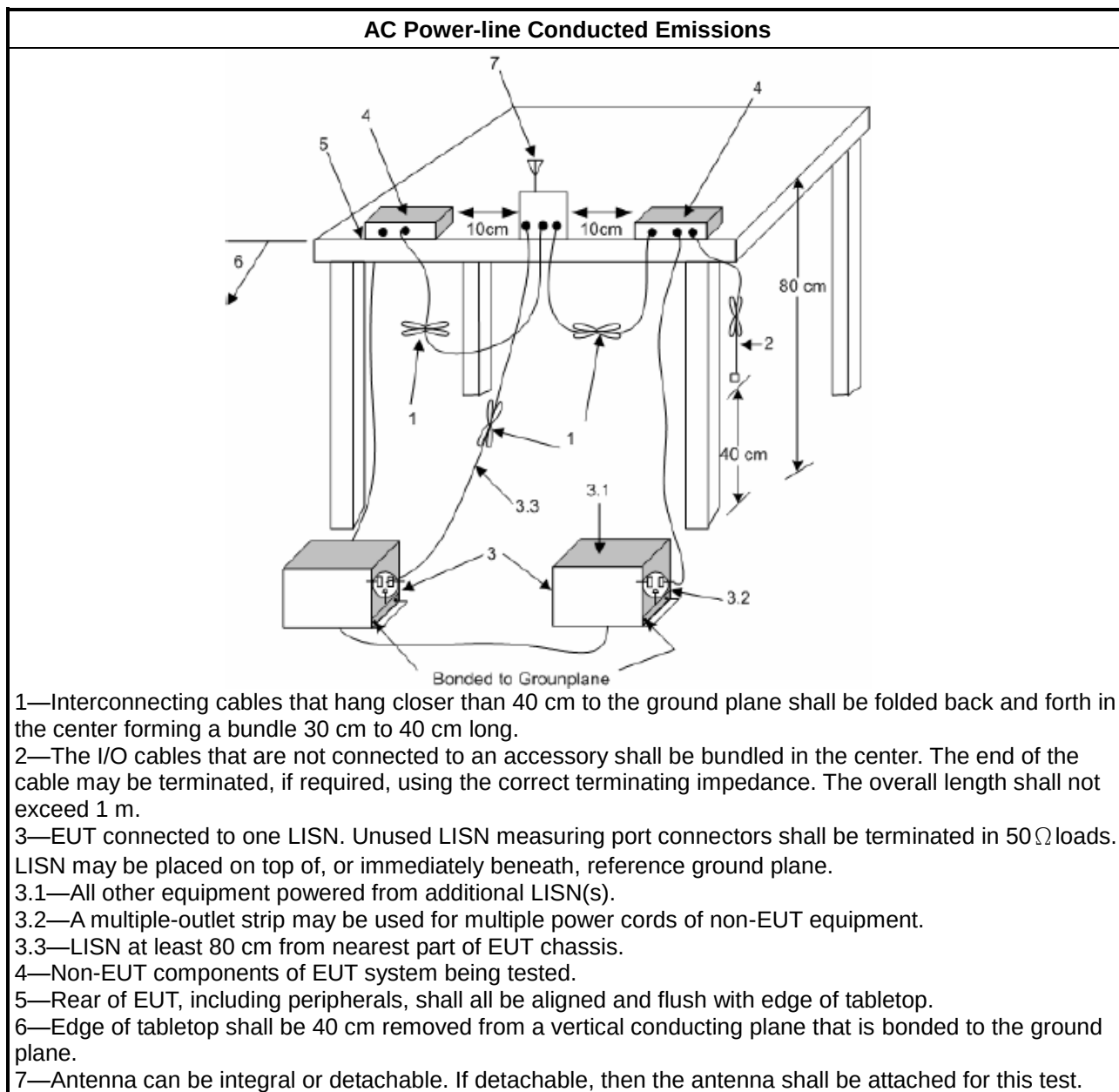
Test Method
▪ Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.

3.1.4 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 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

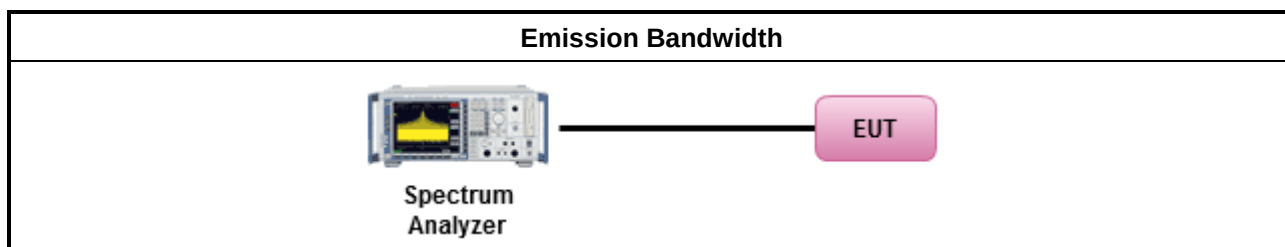
3.2.2 Measuring Instruments

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 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
☐	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
☐	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.	

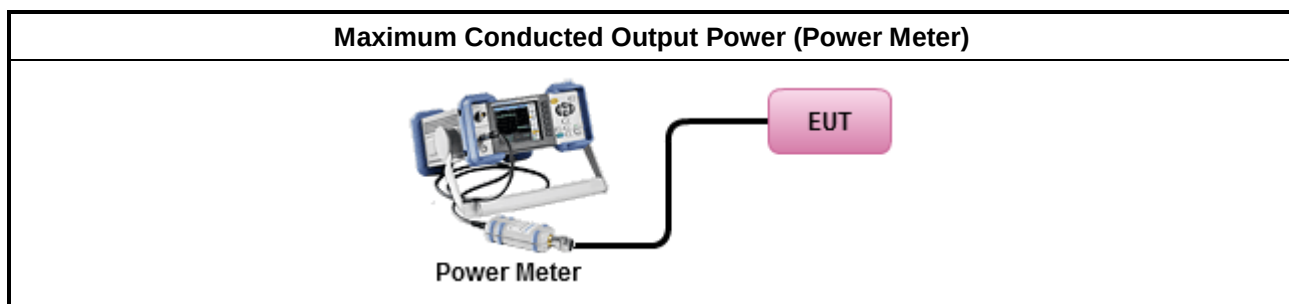
3.3.2 Measuring Instruments

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 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
☐	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
Maximum Average Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
☒	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a 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

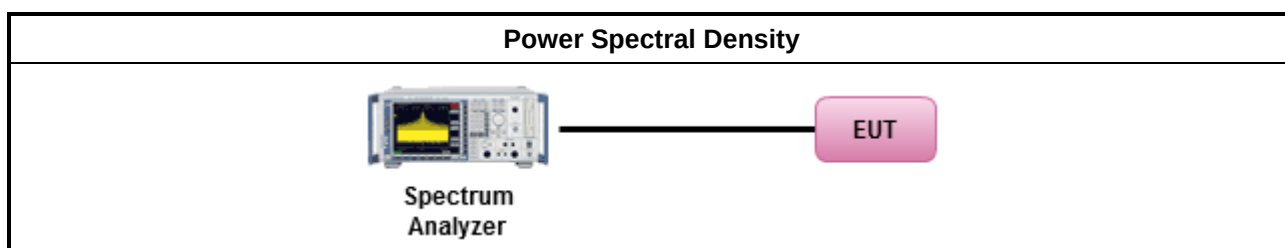
3.4.2 Measuring Instruments

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 8.4 (11.10 of ANSI C63.10) Max. PSD.
▪	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 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 level.	

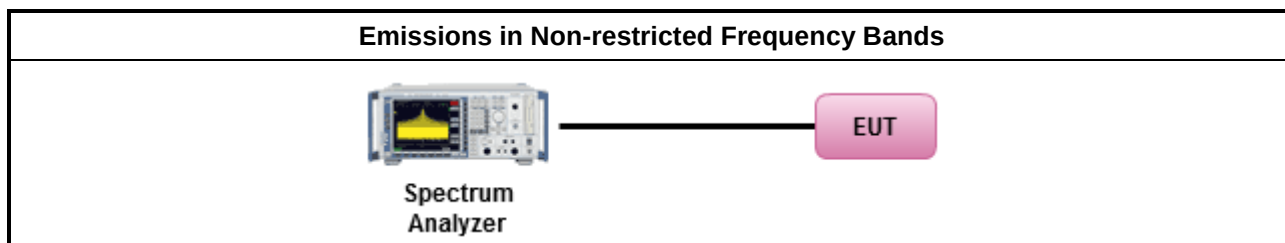
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency 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.

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.

3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

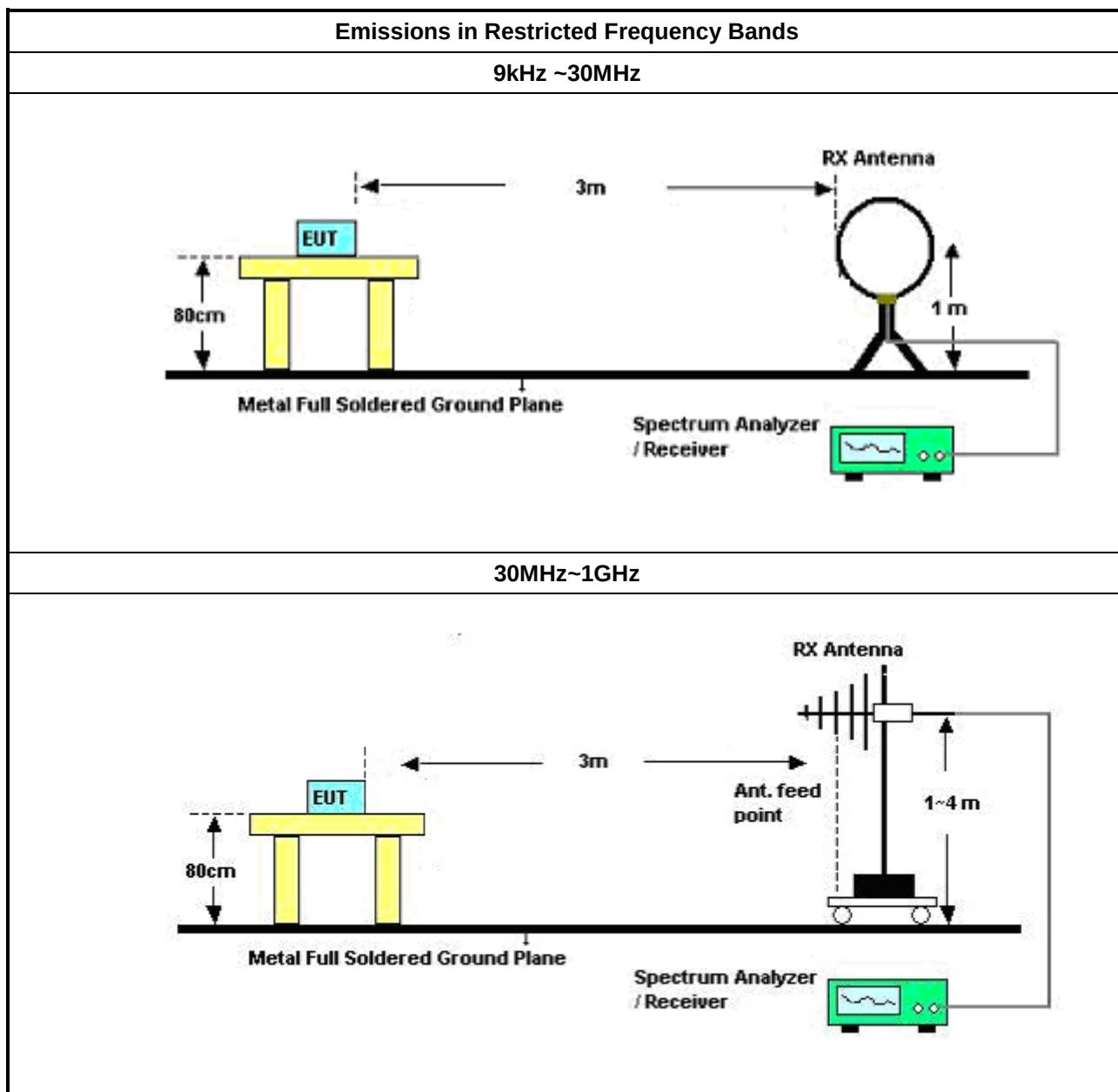
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as KDB 558074 clause 8.7.1, 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 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31 (f) (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.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

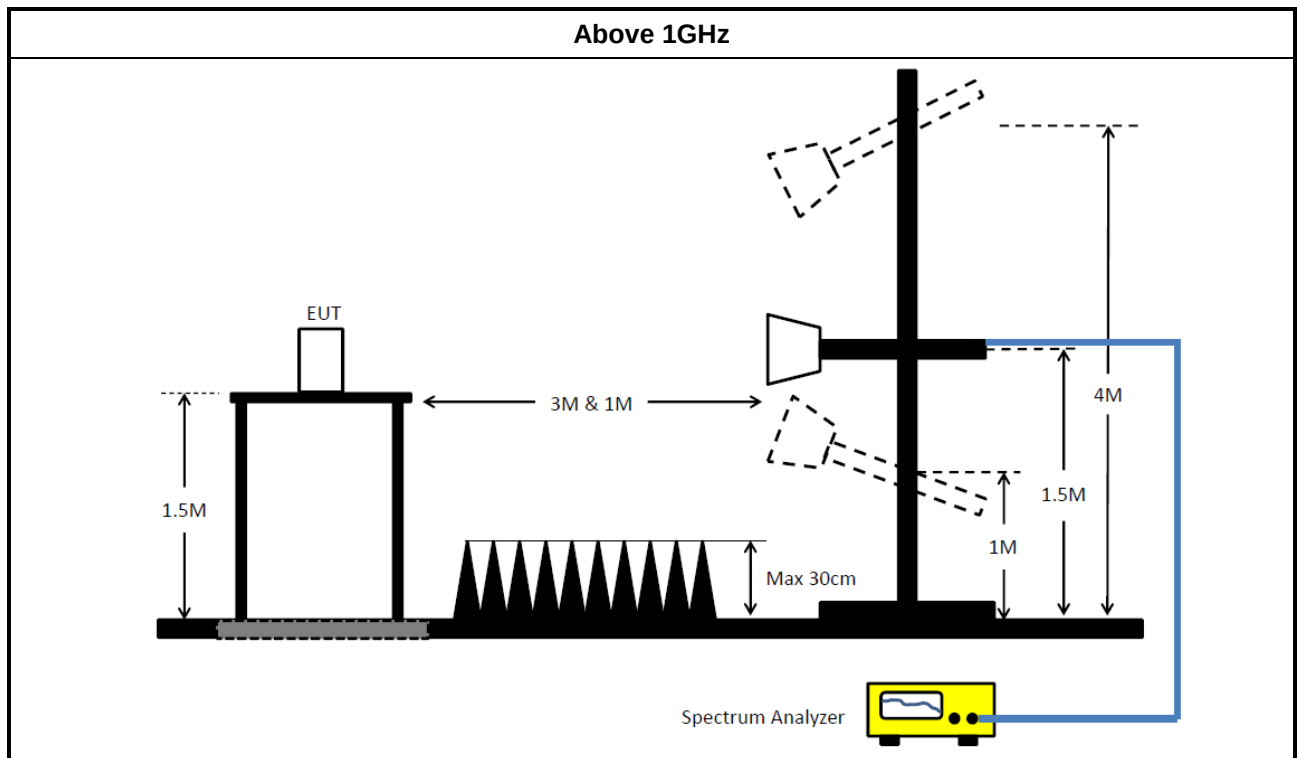
3.6.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.5 Test Setup





3.6.6 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.

3.6.7 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
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
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	31/Aug/2020	30/Aug/2021
Impuls Begrenzer Pulse Limiter	SCHWARZBEC K	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	24/Sep/2019	23/Sep/2020

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	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	04/Aug/2020	03/Aug/2021
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	02/Aug/2020	01/Aug/2021
Signal Analyzer	R&S	FSP40	100593	1GHz~26.5GHz	27/Feb/2020	26/Feb/2021
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	30/Jun/2020	29/Jun/2021
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~18GHz	16/Oct/2019	15/Oct/2020
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	06/Sep/2020	05/Sep/2021
Double Ridged Guide Horn Antenna	SCHWARZBEC	BBHA 9120 D	BBHA 9120 D 01543	1GHz~18GHz	09/Jun/2020	08/Jun/2021
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz~30MHz	20/Jun/2020	19/Jun/2021
RF Cable-R03m	Jye Bao	RG142	CB017	30MHz~1GHz	25/Mar/2020	24/Mar/2021
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+805192/4	1GHz~40GHz	08/Apr/2020	07/Apr/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

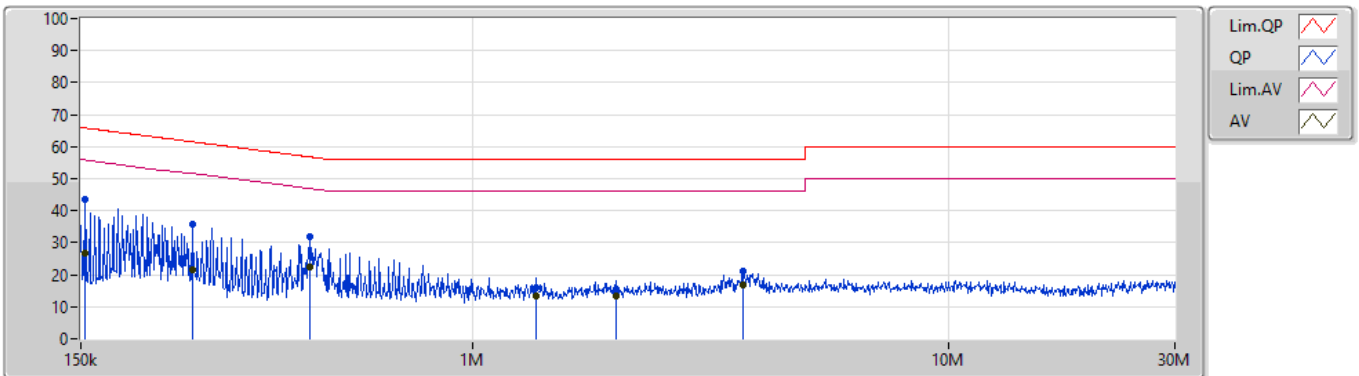
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	483.136k	25.80	46.29	-20.49	Neutral

Mode Configure

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	153.024k	43.49	65.83	-22.34	Line	"Worst"
Mode 1	Pass	AV	153.024k	26.56	55.83	-29.27	Line	-
Mode 1	Pass	QP	257.124k	35.57	61.53	-25.96	Line	-
Mode 1	Pass	AV	257.124k	21.48	51.53	-30.05	Line	-
Mode 1	Pass	QP	455.055k	31.70	56.78	-25.08	Line	-
Mode 1	Pass	AV	455.055k	22.31	46.78	-24.47	Line	-
Mode 1	Pass	QP	1.359M	15.91	56.00	-40.09	Line	-
Mode 1	Pass	AV	1.359M	13.26	46.00	-32.74	Line	-
Mode 1	Pass	QP	2.001M	15.59	56.00	-40.41	Line	-
Mode 1	Pass	AV	2.001M	13.40	46.00	-32.60	Line	-
Mode 1	Pass	QP	3.701M	21.05	56.00	-34.95	Line	-
Mode 1	Pass	AV	3.701M	16.90	46.00	-29.10	Line	-
Mode 1	Pass	QP	151.202k	42.72	65.92	-23.20	Neutral	-
Mode 1	Pass	AV	151.202k	26.21	55.92	-29.71	Neutral	-
Mode 1	Pass	QP	483.136k	30.59	56.29	-25.70	Neutral	-
Mode 1	Pass	AV	483.136k	25.80	46.29	-20.49	Neutral	"Worst"
Mode 1	Pass	QP	792.592k	21.88	56.00	-34.12	Neutral	-
Mode 1	Pass	AV	792.592k	17.71	46.00	-28.29	Neutral	-
Mode 1	Pass	QP	1.811M	20.24	56.00	-35.76	Neutral	-
Mode 1	Pass	AV	1.811M	16.60	46.00	-29.40	Neutral	-
Mode 1	Pass	QP	2.274M	22.56	56.00	-33.44	Neutral	-
Mode 1	Pass	AV	2.274M	17.28	46.00	-28.72	Neutral	-
Mode 1	Pass	QP	3.444M	20.28	56.00	-35.72	Neutral	-
Mode 1	Pass	AV	3.444M	16.77	46.00	-29.23	Neutral	-

Conducted Emissions at Powerline_Mode 1

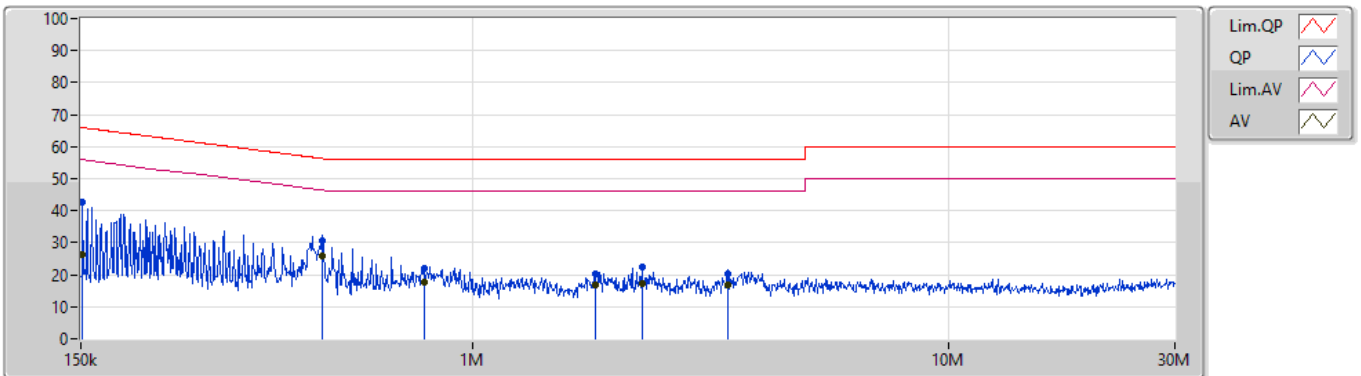
24/09/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	153.024k	43.49	65.83	-22.34	19.54	Line	"Worst"	23.95	9.66	0.01	9.87			
AV	153.024k	26.56	55.83	-29.27	19.54	Line	-	7.02	9.66	0.01	9.87			
QP	257.124k	35.57	61.53	-25.96	19.53	Line	-	16.04	9.65	0.01	9.87			
AV	257.124k	21.48	51.53	-30.05	19.53	Line	-	1.95	9.65	0.01	9.87			
QP	455.055k	31.70	56.78	-25.08	19.53	Line	-	12.17	9.64	0.02	9.87			
AV	455.055k	22.31	46.78	-24.47	19.53	Line	-	2.78	9.64	0.02	9.87			
QP	1.359M	15.91	56.00	-40.09	19.58	Line	-	-3.67	9.64	0.06	9.88			
AV	1.359M	13.26	46.00	-32.74	19.58	Line	-	-6.32	9.64	0.06	9.88			
QP	2.001M	15.59	56.00	-40.41	19.60	Line	-	-4.01	9.65	0.08	9.87			
AV	2.001M	13.40	46.00	-32.60	19.60	Line	-	-6.20	9.65	0.08	9.87			
QP	3.701M	21.05	56.00	-34.95	19.66	Line	-	1.39	9.66	0.12	9.88			
AV	3.701M	16.90	46.00	-29.10	19.66	Line	-	-2.76	9.66	0.12	9.88			

Conducted Emissions at Powerline_Mode 1

24/09/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	151.202k	42.72	65.92	-23.20	19.53	Neutral	-	23.19	9.65	0.01	9.87			
AV	151.202k	26.21	55.92	-29.71	19.53	Neutral	-	6.68	9.65	0.01	9.87			
QP	483.136k	30.59	56.29	-25.70	19.53	Neutral	-	11.06	9.63	0.03	9.87			
AV	483.136k	25.80	46.29	-20.49	19.53	Neutral	"Worst"	6.27	9.63	0.03	9.87			
QP	792.592k	21.88	56.00	-34.12	19.54	Neutral	-	2.34	9.63	0.04	9.87			
AV	792.592k	17.71	46.00	-28.29	19.54	Neutral	-	-1.83	9.63	0.04	9.87			
QP	1.811M	20.24	56.00	-35.76	19.60	Neutral	-	0.64	9.65	0.08	9.87			
AV	1.811M	16.60	46.00	-29.40	19.60	Neutral	-	-3.00	9.65	0.08	9.87			
QP	2.274M	22.56	56.00	-33.44	19.61	Neutral	-	2.95	9.65	0.09	9.87			
AV	2.274M	17.28	46.00	-28.72	19.61	Neutral	-	-2.33	9.65	0.09	9.87			
QP	3.444M	20.28	56.00	-35.72	19.65	Neutral	-	0.63	9.66	0.11	9.88			
AV	3.444M	16.77	46.00	-29.23	19.65	Neutral	-	-2.88	9.66	0.11	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-LE(1Mbps)	695k	1.042M	1M04F1D	683.75k	1.038M
BT-LE(2Mbps)	1.238M	2.025M	2M03F1D	1.23M	2.025M

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

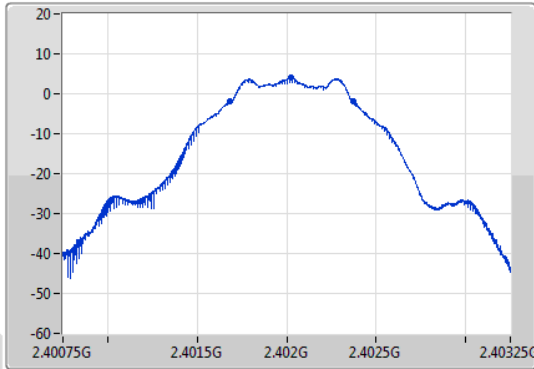
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-LE(1Mbps)	-	-	-	-
2402MHz_DTS	Pass	500k	686.25k	1.042M
2440MHz_DTS	Pass	500k	683.75k	1.039M
2480MHz_DTS	Pass	500k	695k	1.038M
BT-LE(2Mbps)	-	-	-	-
2402MHz_DTS	Pass	500k	1.233M	2.025M
2440MHz_DTS	Pass	500k	1.23M	2.025M
2480MHz_DTS	Pass	500k	1.238M	2.025M

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

BT-LE(1Mbps)
2402MHz

CF
2.402GHz
Span
2.5MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port1

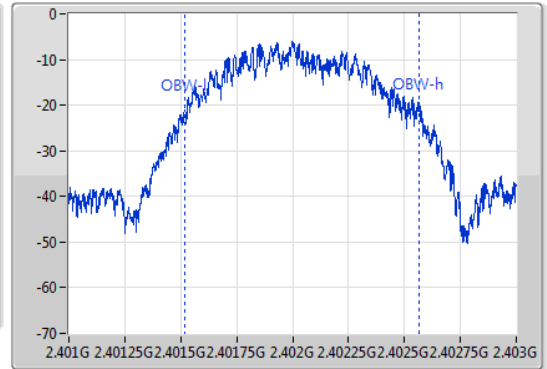


6dB(Hz)	FI-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
686.25k	2.401685G	2.402371G	1.042M	2.40152G	2.402563G	500k	1

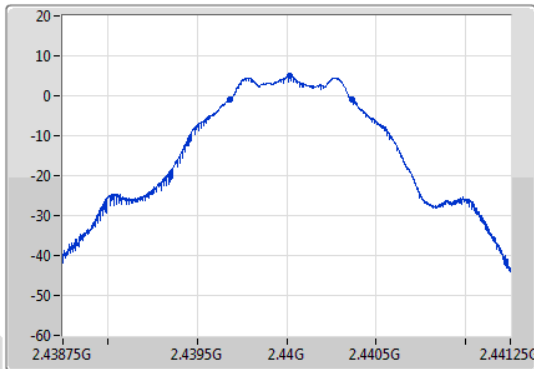
EBW-DTS

14/09/2020

CF
2.402GHz
Span
2MHz
RBW
10kHz
VBW
30kHz
Sweep Time
100ms
Detector Type
Sample


BT-LE(1Mbps)
2440MHz

CF
2.44GHz
Span
2.5MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak
Port1

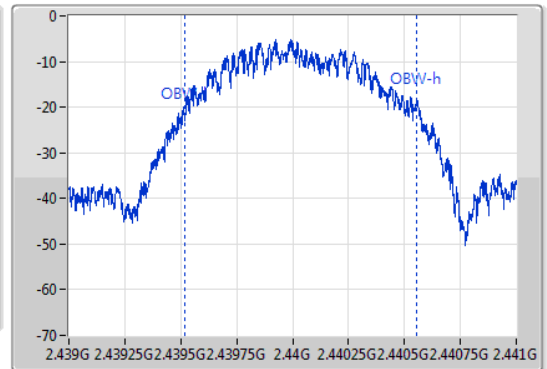


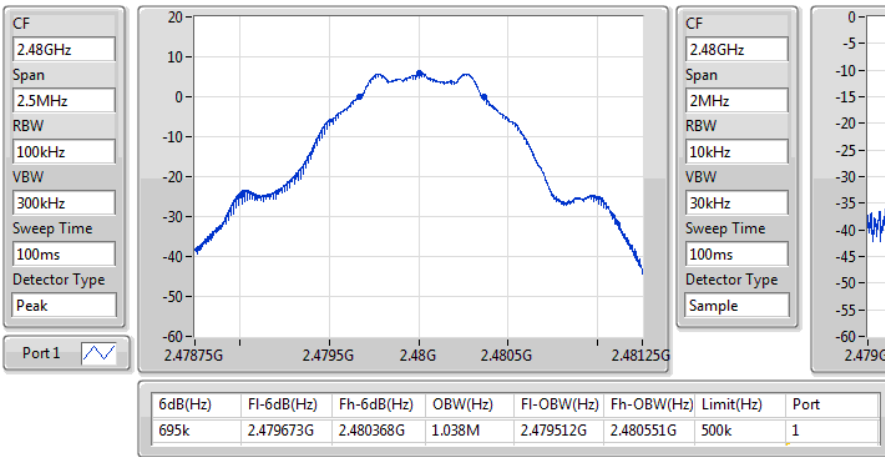
6dB(Hz)	FI-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
683.75k	2.43968G	2.440364G	1.039M	2.439517G	2.440557G	500k	1

EBW-DTS

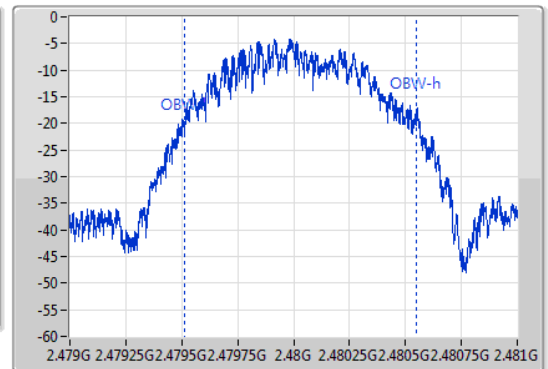
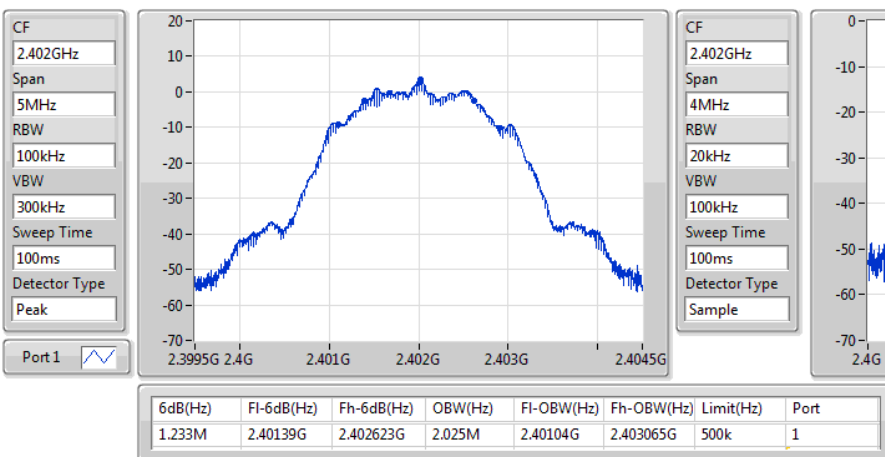
14/09/2020

CF
2.44GHz
Span
2MHz
RBW
10kHz
VBW
30kHz
Sweep Time
100ms
Detector Type
Sample

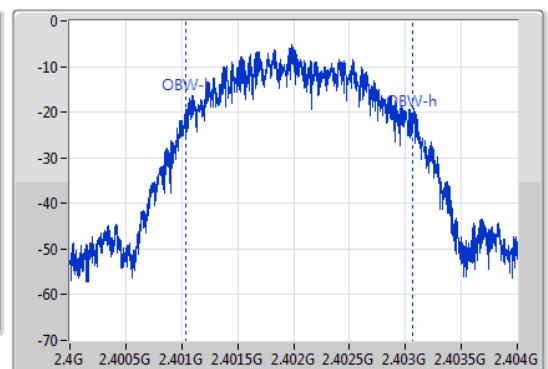


BT-LE(1Mbps)
2480MHz

EBW-DTS

14/09/2020

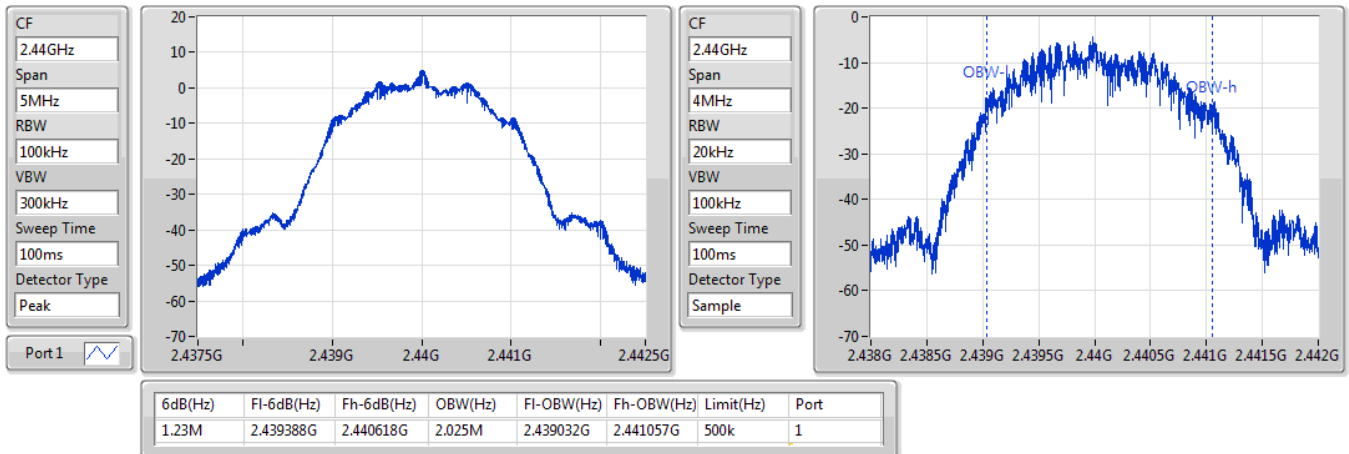

BT-LE(2Mbps)
2402MHz

EBW-DTS

14/09/2020

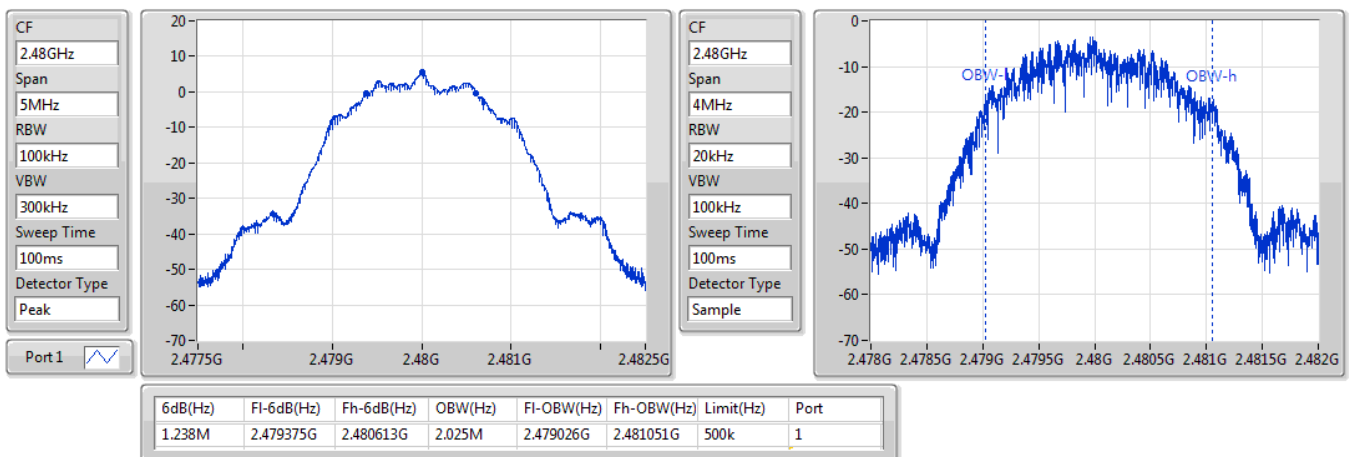


BT-LE(2Mbps)
EBW-DTS
2440MHz

14/09/2020


BT-LE(2Mbps)
EBW-DTS
2480MHz

14/09/2020





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	6.89	0.00489
BT-LE(2Mbps)	7.11	0.00514



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz_DTS	Pass	1.41	4.91	30.00
2440MHz_DTS	Pass	1.41	5.74	30.00
2480MHz_DTS	Pass	1.41	6.89	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz_DTS	Pass	1.41	5.02	30.00
2440MHz_DTS	Pass	1.41	5.75	30.00
2480MHz_DTS	Pass	1.41	7.11	30.00

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



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	5.65	0.00367
BT-LE(2Mbps)	5.31	0.00340



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz_DTS	Pass	1.41	3.50	30.00
2440MHz_DTS	Pass	1.41	4.11	30.00
2480MHz_DTS	Pass	1.41	5.65	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz_DTS	Pass	1.41	3.51	30.00
2440MHz_DTS	Pass	1.41	4.13	30.00
2480MHz_DTS	Pass	1.41	5.31	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-9.68
BT-LE(2Mbps)	-12.51

RBW = 3kHz;

Result

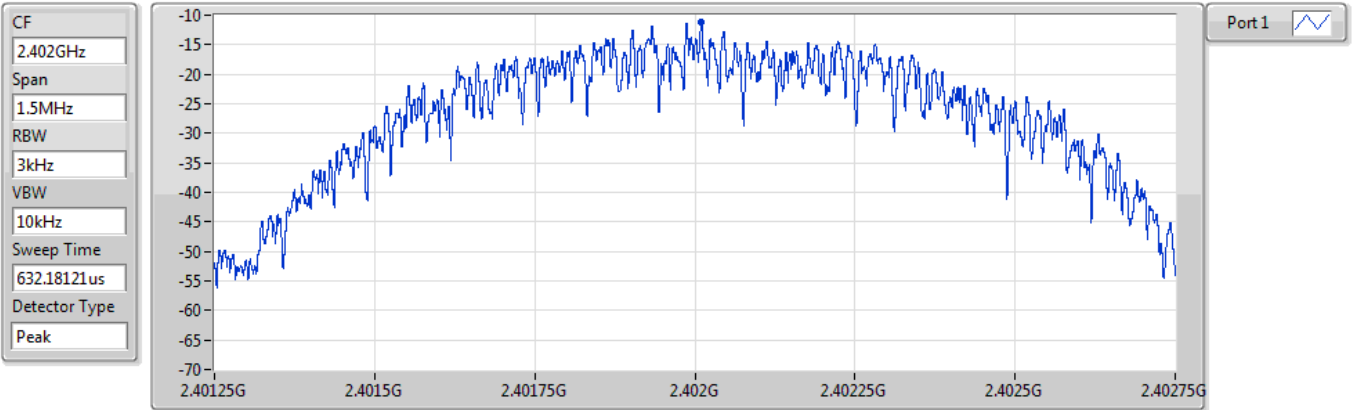
Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz_DTS	Pass	1.41	-11.09	8.00
2440MHz_DTS	Pass	1.41	-10.94	8.00
2480MHz_DTS	Pass	1.41	-9.68	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz_DTS	Pass	1.41	-14.46	8.00
2440MHz_DTS	Pass	1.41	-12.84	8.00
2480MHz_DTS	Pass	1.41	-12.51	8.00

DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

BT-LE(1Mbps)

2402MHz

14/09/2020

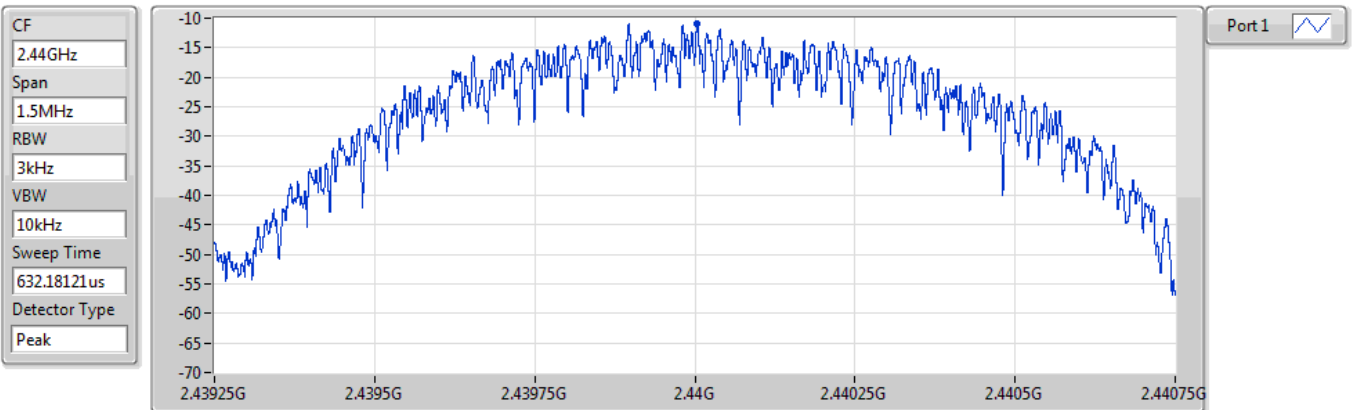


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.09	-11.09	-11.09

BT-LE(1Mbps)

2440MHz

14/09/2020

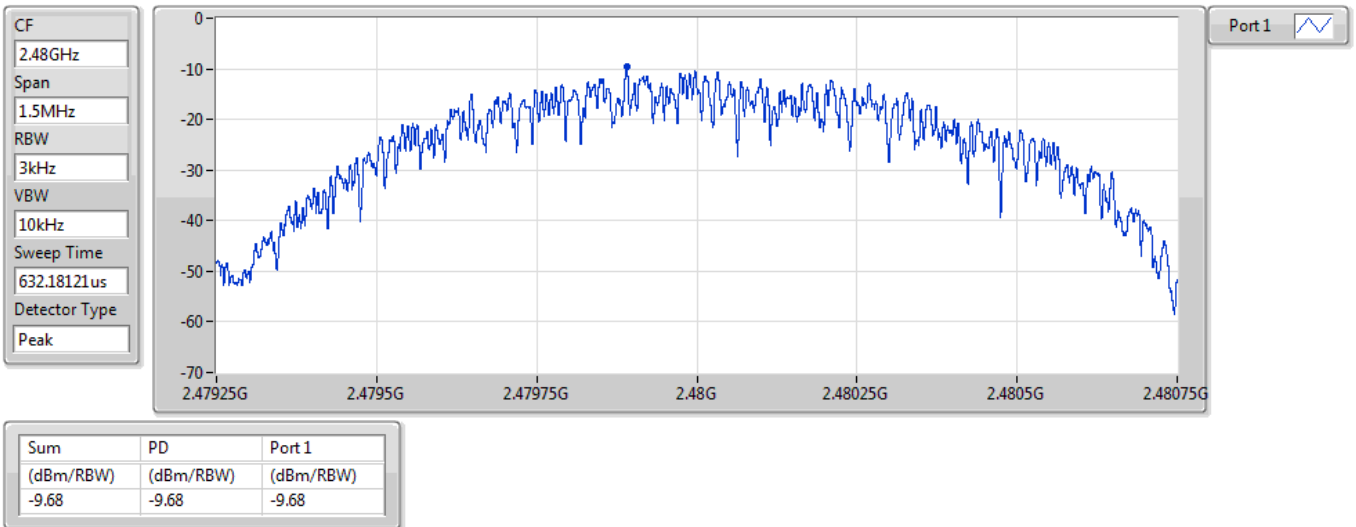


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.94	-10.94	-10.94

BT-LE(1Mbps)

2480MHz

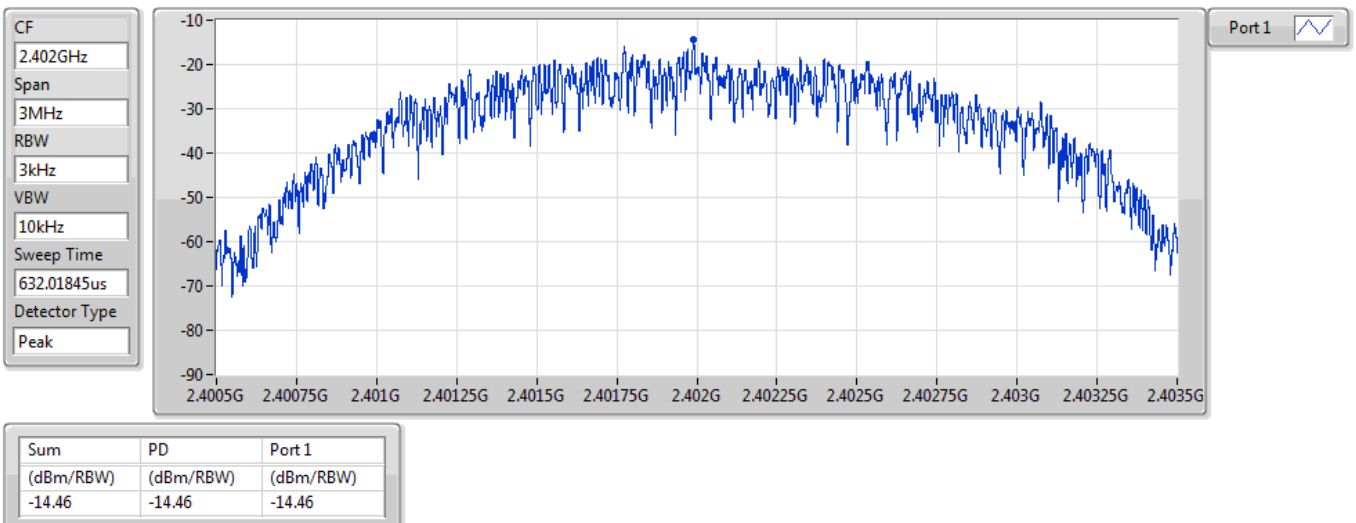
14/09/2020



BT-LE(2Mbps)

2402MHz

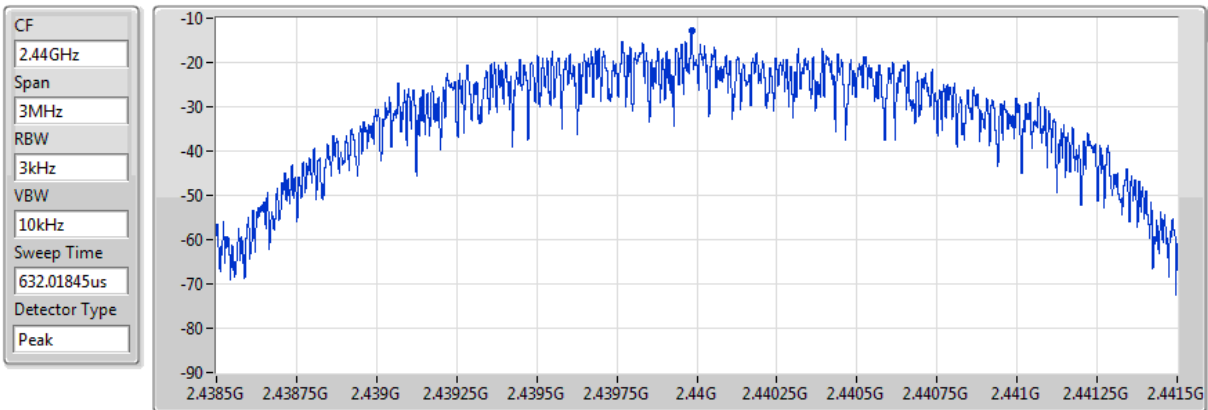
14/09/2020



BT-LE(2Mbps)

2440MHz

14/09/2020

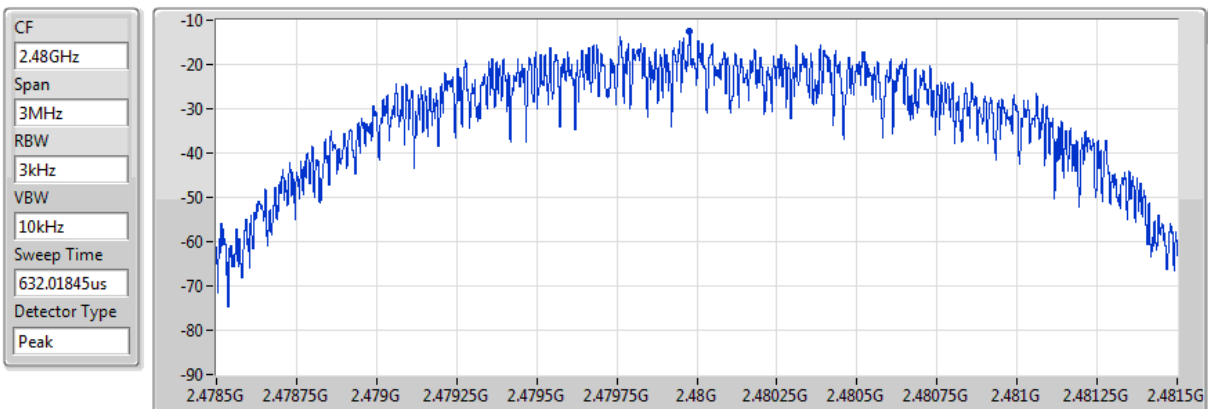


Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-12.84	-12.84	-12.84

BT-LE(2Mbps)

2480MHz

14/09/2020



Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-12.51	-12.51	-12.51



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-LE(1Mbps)	Pass	2.48003G	5.82	-24.18	2.3095G	-53.60	2.39903G	-52.48	2.4835G	-54.44	2.48903G	-51.75	23.17778G	-41.33	1
BT-LE(2Mbps)	Pass	2.48003G	5.30	-24.70	2.1309G	-54.00	2.4G	-42.22	2.4G	-43.95	2.50291G	-51.98	23.56304G	-41.15	1

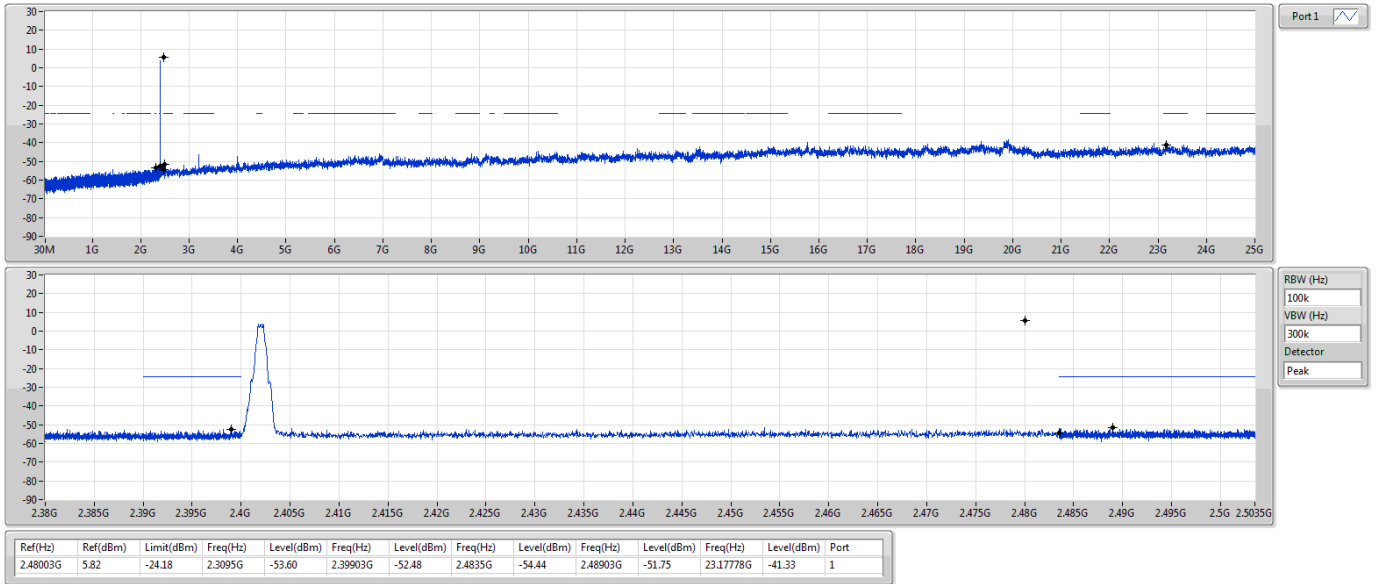
Result

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-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_DTS	Pass	2.48003G	5.82	-24.18	2.3095G	-53.60	2.39903G	-52.48	2.4835G	-54.44	2.48903G	-51.75	23.17778G	-41.33	1
2440MHz_DTS	Pass	2.48003G	5.82	-24.18	1.94525G	-54.07	2.39517G	-53.26	2.4835G	-54.08	2.50255G	-51.79	15.02843G	-41.19	1
2480MHz_DTS	Pass	2.48003G	5.82	-24.18	2.10006G	-53.88	2.39158G	-53.01	2.4835G	-55.08	2.50165G	-52.36	24.9297G	-40.56	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_DTS	Pass	2.48003G	5.30	-24.70	2.1309G	-54.00	2.4G	-42.22	2.4G	-43.95	2.50291G	-51.98	23.56304G	-41.15	1
2440MHz_DTS	Pass	2.48003G	5.30	-24.70	2.13266G	-53.49	2.39174G	-52.50	2.4835G	-55.52	2.49063G	-51.58	24.76941G	-41.64	1
2480MHz_DTS	Pass	2.48003G	5.30	-24.70	2.15146G	-53.57	2.39204G	-52.61	2.4G	-54.80	2.50068G	-50.98	16.55819G	-41.05	1

BT-LE(1Mbps)

CSEndB-DTS

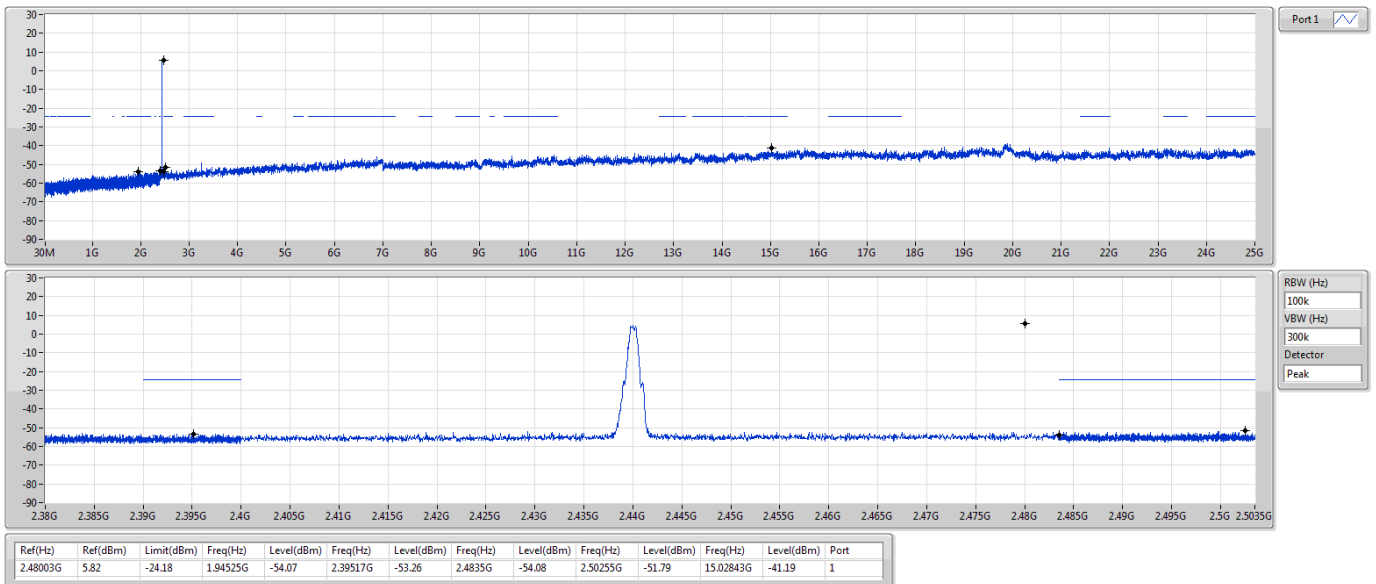
2402MHz



BT-LE(1Mbps)

CSEndB-DTS

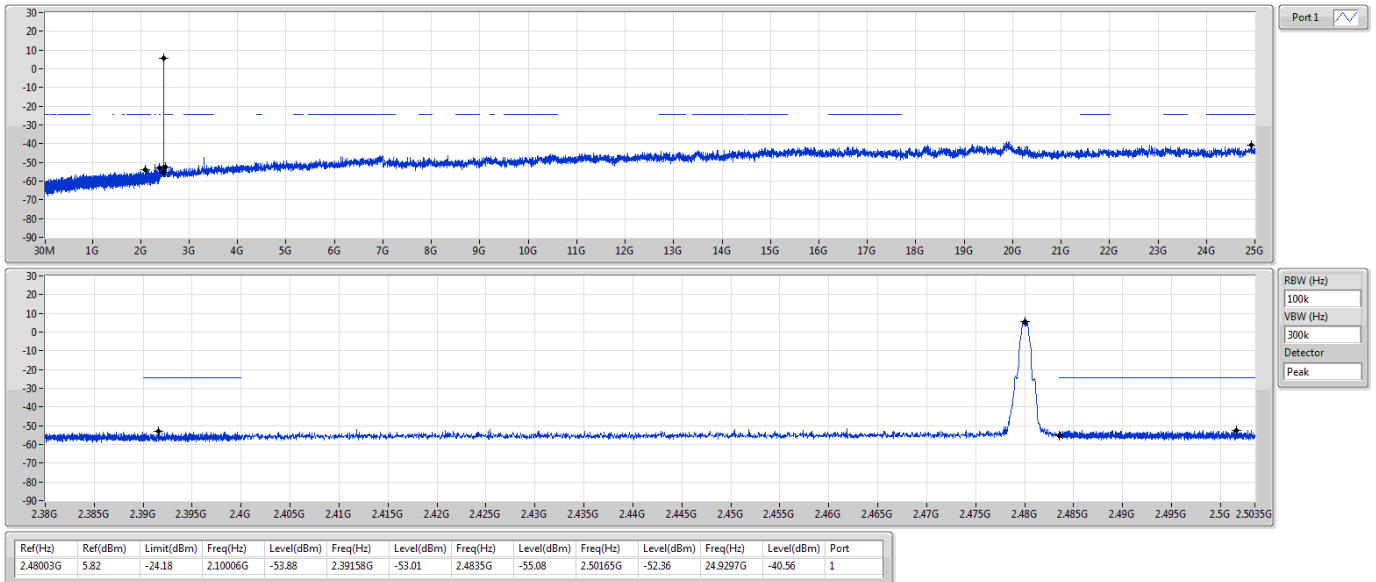
2440MHz



BT-LE(1Mbps)

CSEndB-DTS

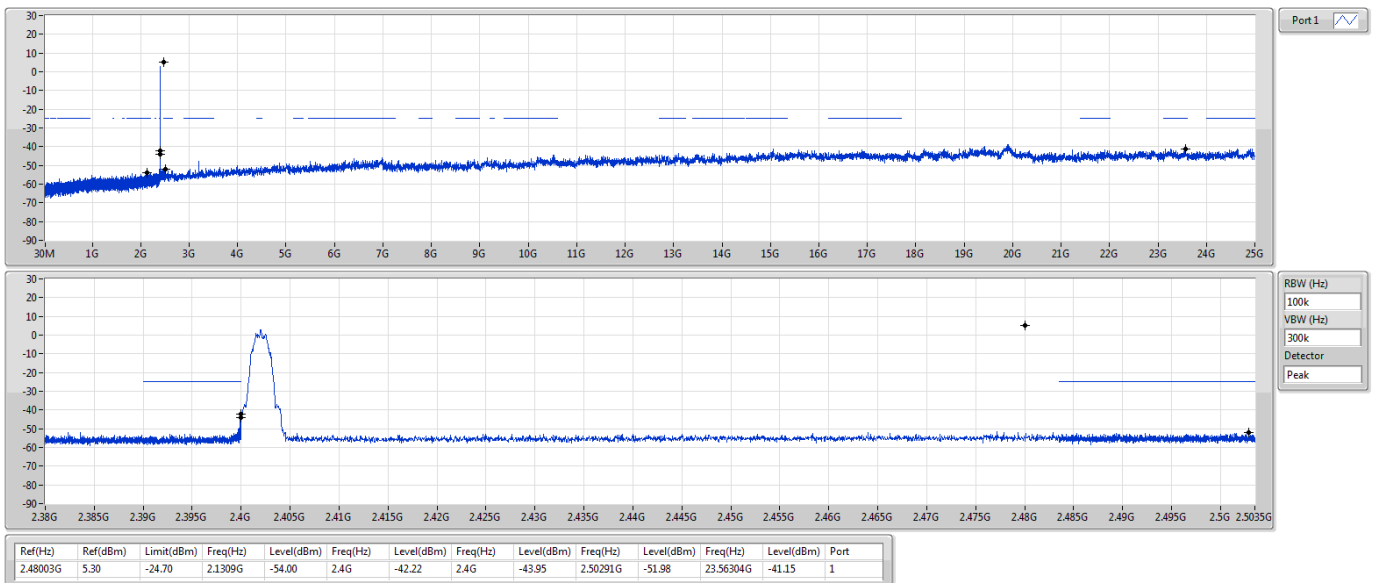
2480MHz



BT-LE(2Mbps)

CSEndB-DTS

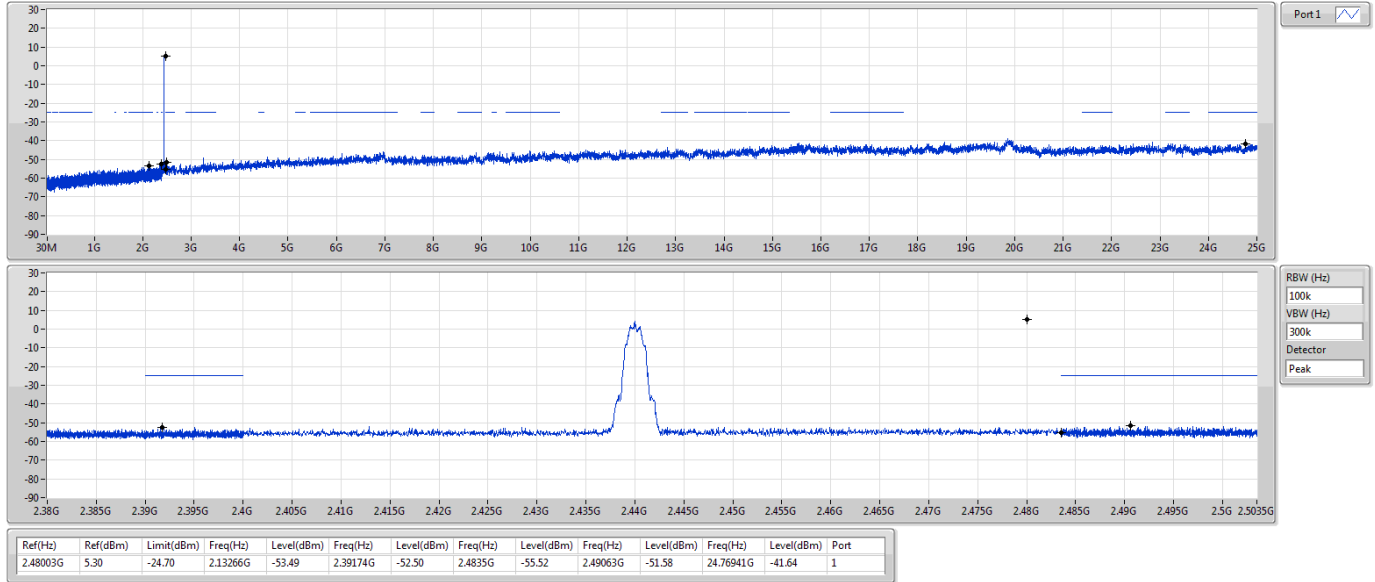
2402MHz



BT-LE(2Mbps)

CSEndB-DTS

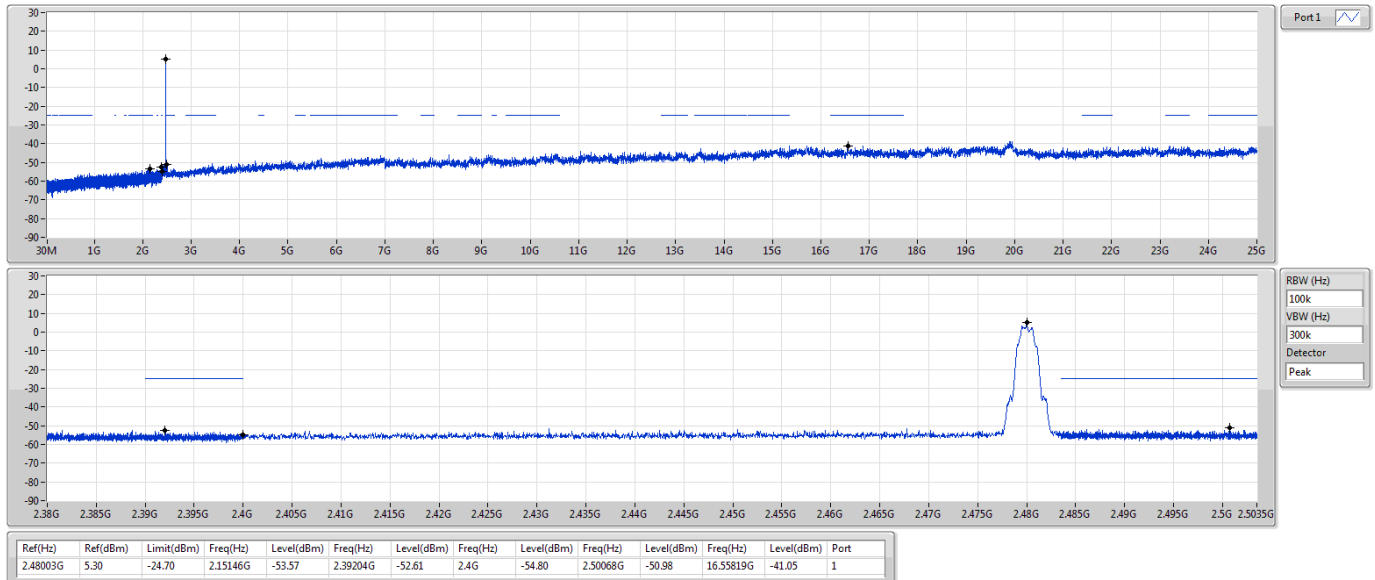
2440MHz



BT-LE(2Mbps)

CSEndB-DTS

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-LE(2Mbps)	Pass	PK	33.88M	35.25	40.00	-4.75	3	Vertical	0	1.00	-

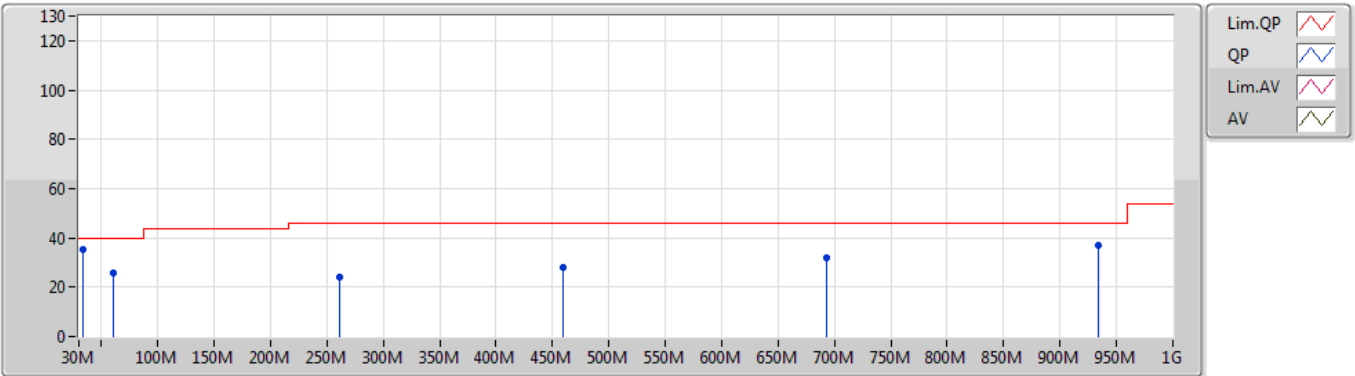
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	33.88M	35.25	40.00	-4.75	3	Vertical	0	1.00	-
2440MHz	Pass	PK	61.04M	25.80	40.00	-14.20	3	Vertical	0	1.00	-
2440MHz	Pass	PK	260.86M	23.89	46.00	-22.11	3	Vertical	0	1.00	-
2440MHz	Pass	PK	458.74M	28.06	46.00	-17.94	3	Vertical	0	1.00	-
2440MHz	Pass	PK	693.48M	32.10	46.00	-13.90	3	Vertical	0	1.00	-
2440MHz	Pass	PK	934.04M	37.02	46.00	-8.98	3	Vertical	0	1.00	-
2440MHz	Pass	PK	37.76M	29.85	40.00	-10.15	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	115.36M	22.47	43.50	-21.03	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	264.74M	24.36	46.00	-21.64	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	410.24M	27.42	46.00	-18.58	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	613.94M	31.32	46.00	-14.68	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	934.04M	39.00	46.00	-7.00	3	Horizontal	360	1.00	-

BT-LE(2Mbps)

13/09/2020

2440MHz_Adapter

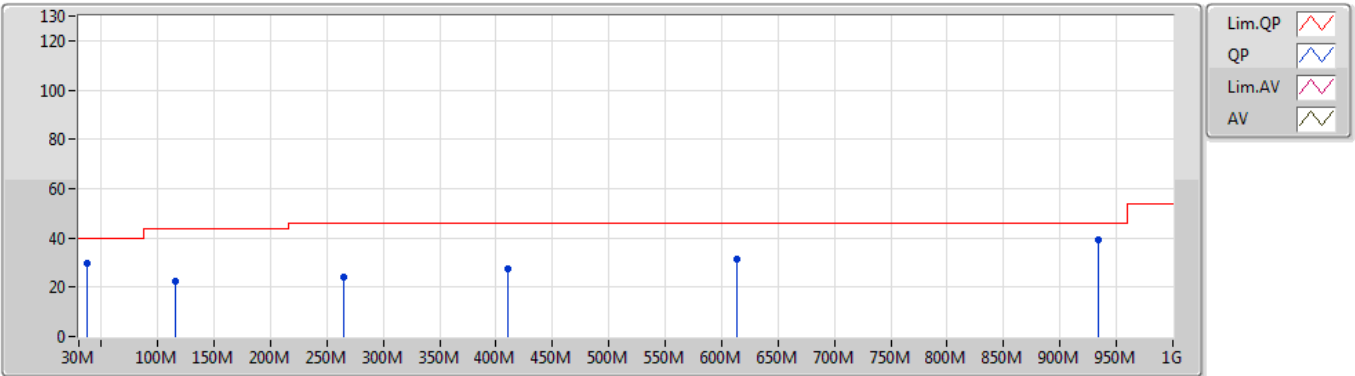


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	33.88M	35.25	40.00	-4.75	-4.92	3	Vertical	0	1.00	-	40.17	21.26	0.78	26.96
PK	61.04M	25.80	40.00	-14.20	-15.15	3	Vertical	0	1.00	-	40.95	11.54	1.10	27.79
PK	260.86M	23.89	46.00	-22.11	-5.86	3	Vertical	0	1.00	-	29.75	18.75	2.44	27.05
PK	458.74M	28.06	46.00	-17.94	-2.59	3	Vertical	0	1.00	-	30.65	22.27	3.25	28.11
PK	693.48M	32.10	46.00	-13.90	0.20	3	Vertical	0	1.00	-	31.90	24.16	4.17	28.13
PK	934.04M	37.02	46.00	-8.98	3.41	3	Vertical	0	1.00	-	33.61	25.84	4.87	27.30

BT-LE(2Mbps)

13/09/2020

2440MHz_Adapter



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	37.76M	29.85	40.00	-10.15	-7.21	3	Horizontal	360	1.00	-	37.06	19.08	0.86	27.15
PK	115.36M	22.47	43.50	-21.03	-8.74	3	Horizontal	360	1.00	-	31.21	17.43	1.55	27.72
PK	264.74M	24.36	46.00	-21.64	-6.00	3	Horizontal	360	1.00	-	30.36	18.59	2.46	27.05
PK	410.24M	27.42	46.00	-18.58	-3.12	3	Horizontal	360	1.00	-	30.54	21.64	3.04	27.80
PK	613.94M	31.32	46.00	-14.68	-0.30	3	Horizontal	360	1.00	-	31.62	24.15	3.86	28.31
PK	934.04M	39.00	46.00	-7.00	3.41	3	Horizontal	360	1.00	-	35.59	25.84	4.87	27.30



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-LE(1Mbps)	Pass	AV	2.4835G	50.84	54.00	-3.16	3	Horizontal	302	1.08	-
BT-LE(2Mbps)	Pass	AV	2.4835G	53.14	54.00	-0.86	3	Horizontal	320	1.01	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3694G	46.88	54.00	-7.12	3	Vertical	59	1.26	-
2402MHz	Pass	AV	2.402G	98.16	Inf	-Inf	3	Vertical	59	1.26	-
2402MHz	Pass	PK	2.3742G	57.84	74.00	-16.16	3	Vertical	59	1.26	-
2402MHz	Pass	PK	2.4018G	99.98	Inf	-Inf	3	Vertical	59	1.26	-
2402MHz	Pass	AV	2.3538G	47.00	54.00	-7.00	3	Horizontal	322	2.72	-
2402MHz	Pass	AV	2.402G	102.50	Inf	-Inf	3	Horizontal	322	2.72	-
2402MHz	Pass	PK	2.367G	58.89	74.00	-15.11	3	Horizontal	322	2.72	-
2402MHz	Pass	PK	2.4018G	104.37	Inf	-Inf	3	Horizontal	322	2.72	-
2402MHz	Pass	AV	4.81354G	30.87	54.00	-23.13	3	Vertical	155	1.06	-
2402MHz	Pass	PK	4.8061G	43.01	74.00	-30.99	3	Vertical	155	1.06	-
2402MHz	Pass	AV	4.80442G	31.29	54.00	-22.71	3	Horizontal	0	2.52	-
2402MHz	Pass	PK	4.80436G	43.22	74.00	-30.78	3	Horizontal	0	2.52	-
2440MHz	Pass	AV	2.3476G	47.00	54.00	-7.00	3	Vertical	61	1.22	-
2440MHz	Pass	AV	2.44G	97.84	Inf	-Inf	3	Vertical	61	1.22	-
2440MHz	Pass	AV	2.4932G	46.58	54.00	-7.42	3	Vertical	61	1.22	-
2440MHz	Pass	PK	2.3648G	57.84	74.00	-16.16	3	Vertical	61	1.22	-
2440MHz	Pass	PK	2.44G	99.64	Inf	-Inf	3	Vertical	61	1.22	-
2440MHz	Pass	PK	2.4932G	57.35	74.00	-16.65	3	Vertical	61	1.22	-
2440MHz	Pass	AV	2.35G	46.89	54.00	-7.11	3	Horizontal	303	1.09	-
2440MHz	Pass	AV	2.44G	102.30	Inf	-Inf	3	Horizontal	303	1.09	-
2440MHz	Pass	AV	2.4844G	46.60	54.00	-7.40	3	Horizontal	303	1.09	-
2440MHz	Pass	PK	2.3704G	57.51	74.00	-16.49	3	Horizontal	303	1.09	-
2440MHz	Pass	PK	2.44G	104.43	Inf	-Inf	3	Horizontal	303	1.09	-
2440MHz	Pass	PK	2.4904G	58.79	74.00	-15.21	3	Horizontal	303	1.09	-
2440MHz	Pass	AV	4.89092G	31.42	54.00	-22.58	3	Vertical	54	2.13	-
2440MHz	Pass	PK	4.8749G	44.61	74.00	-29.39	3	Vertical	54	2.13	-
2440MHz	Pass	AV	4.8938G	31.56	54.00	-22.44	3	Horizontal	324	2.44	-
2440MHz	Pass	PK	4.89458G	43.81	74.00	-30.19	3	Horizontal	324	2.44	-
2480MHz	Pass	AV	2.48G	99.82	Inf	-Inf	3	Vertical	66	1.31	-
2480MHz	Pass	AV	2.4835G	48.60	54.00	-5.40	3	Vertical	66	1.31	-
2480MHz	Pass	PK	2.4798G	101.57	Inf	-Inf	3	Vertical	66	1.31	-
2480MHz	Pass	PK	2.4835G	57.28	74.00	-16.72	3	Vertical	66	1.31	-
2480MHz	Pass	AV	2.48G	103.63	Inf	-Inf	3	Horizontal	302	1.08	-
2480MHz	Pass	AV	2.4835G	50.84	54.00	-3.16	3	Horizontal	302	1.08	-
2480MHz	Pass	PK	2.4798G	105.34	Inf	-Inf	3	Horizontal	302	1.08	-
2480MHz	Pass	PK	2.4835G	58.01	74.00	-15.99	3	Horizontal	302	1.08	-
2480MHz	Pass	AV	4.96342G	31.23	54.00	-22.77	3	Vertical	323	1.72	-
2480MHz	Pass	PK	4.94902G	43.30	74.00	-30.70	3	Vertical	323	1.72	-
2480MHz	Pass	AV	4.97062G	31.57	54.00	-22.43	3	Horizontal	1	2.43	-
2480MHz	Pass	PK	4.96114G	43.82	74.00	-30.18	3	Horizontal	1	2.43	-
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3812G	47.75	54.00	-6.25	3	Vertical	284	3.00	-
2402MHz	Pass	AV	2.402G	97.92	Inf	-Inf	3	Vertical	284	3.00	-
2402MHz	Pass	PK	2.3848G	58.01	74.00	-15.99	3	Vertical	284	3.00	-
2402MHz	Pass	PK	2.4016G	101.33	Inf	-Inf	3	Vertical	284	3.00	-
2402MHz	Pass	AV	2.3572G	47.90	54.00	-6.10	3	Horizontal	324	2.49	-
2402MHz	Pass	AV	2.402G	100.66	Inf	-Inf	3	Horizontal	324	2.49	-
2402MHz	Pass	PK	2.3896G	57.58	74.00	-16.42	3	Horizontal	324	2.49	-
2402MHz	Pass	PK	2.4016G	104.09	Inf	-Inf	3	Horizontal	324	2.49	-
2402MHz	Pass	AV	4.79452G	32.67	54.00	-21.33	3	Vertical	132	2.88	-
2402MHz	Pass	PK	4.79428G	45.35	74.00	-28.65	3	Vertical	132	2.88	-
2402MHz	Pass	AV	4.8004G	32.42	54.00	-21.58	3	Horizontal	125	1.42	-
2402MHz	Pass	PK	4.80148G	43.38	74.00	-30.62	3	Horizontal	125	1.42	-
2440MHz	Pass	AV	2.356G	48.12	54.00	-5.88	3	Vertical	86	1.18	-
2440MHz	Pass	AV	2.44G	96.76	Inf	-Inf	3	Vertical	86	1.18	-
2440MHz	Pass	AV	2.4924G	47.22	54.00	-6.78	3	Vertical	86	1.18	-
2440MHz	Pass	PK	2.3496G	57.94	74.00	-16.06	3	Vertical	86	1.18	-
2440MHz	Pass	PK	2.4396G	100.22	Inf	-Inf	3	Vertical	86	1.18	-
2440MHz	Pass	PK	2.4972G	57.08	74.00	-16.92	3	Vertical	86	1.18	-
2440MHz	Pass	AV	2.344G	47.71	54.00	-6.29	3	Horizontal	325	3.00	-

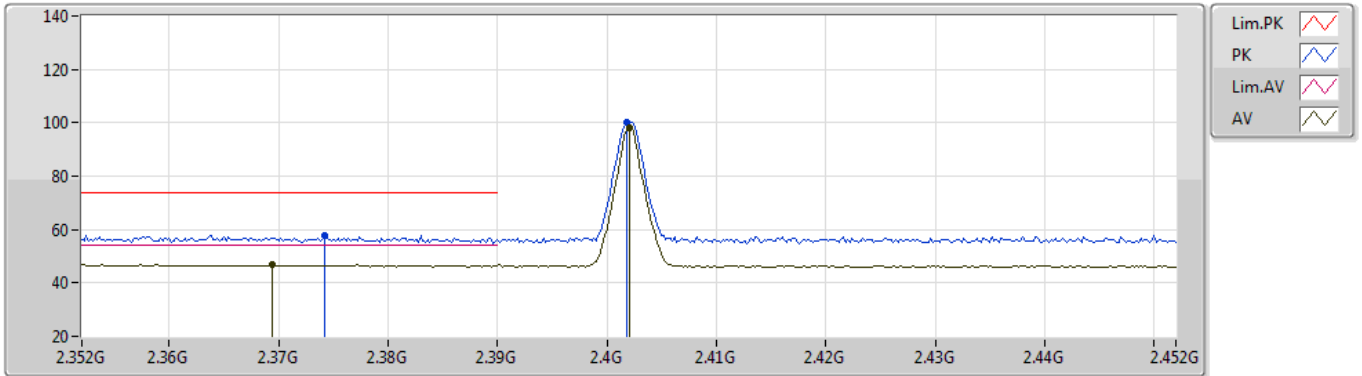


Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2440MHz	Pass	AV	2.44G	100.60	Inf	-Inf	3	Horizontal	325	3.00	-
2440MHz	Pass	AV	2.4835G	47.31	54.00	-6.69	3	Horizontal	325	3.00	-
2440MHz	Pass	PK	2.3508G	58.22	74.00	-15.78	3	Horizontal	325	3.00	-
2440MHz	Pass	PK	2.4396G	104.07	Inf	-Inf	3	Horizontal	325	3.00	-
2440MHz	Pass	PK	2.492G	57.54	74.00	-16.46	3	Horizontal	325	3.00	-
2440MHz	Pass	AV	4.88696G	32.48	54.00	-21.52	3	Vertical	204	1.49	-
2440MHz	Pass	PK	4.88036G	43.38	74.00	-30.62	3	Vertical	204	1.49	-
2440MHz	Pass	AV	4.86992G	32.47	54.00	-21.53	3	Horizontal	289	1.49	-
2440MHz	Pass	PK	4.89332G	44.04	74.00	-29.96	3	Horizontal	289	1.49	-
2480MHz	Pass	AV	2.4802G	98.21	Inf	-Inf	3	Vertical	75	1.00	-
2480MHz	Pass	AV	2.4835G	49.92	54.00	-4.08	3	Vertical	75	1.00	-
2480MHz	Pass	PK	2.4796G	101.61	Inf	-Inf	3	Vertical	75	1.00	-
2480MHz	Pass	PK	2.4835G	57.60	74.00	-16.40	3	Vertical	75	1.00	-
2480MHz	Pass	AV	2.4802G	102.83	Inf	-Inf	3	Horizontal	320	1.01	-
2480MHz	Pass	AV	2.4835G	53.14	54.00	-0.86	3	Horizontal	320	1.01	-
2480MHz	Pass	PK	2.4796G	106.10	Inf	-Inf	3	Horizontal	320	1.01	-
2480MHz	Pass	PK	2.4835G	60.60	74.00	-13.40	3	Horizontal	320	1.01	-
2480MHz	Pass	AV	4.96708G	32.55	54.00	-21.45	3	Vertical	279	1.49	-
2480MHz	Pass	PK	4.96246G	43.43	74.00	-30.57	3	Vertical	279	1.49	-
2480MHz	Pass	AV	4.954G	32.87	54.00	-21.13	3	Horizontal	128	2.67	-
2480MHz	Pass	PK	4.94932G	43.60	74.00	-30.40	3	Horizontal	128	2.67	-

BT-LE(1Mbps)

2402MHz_TX

09/09/2020

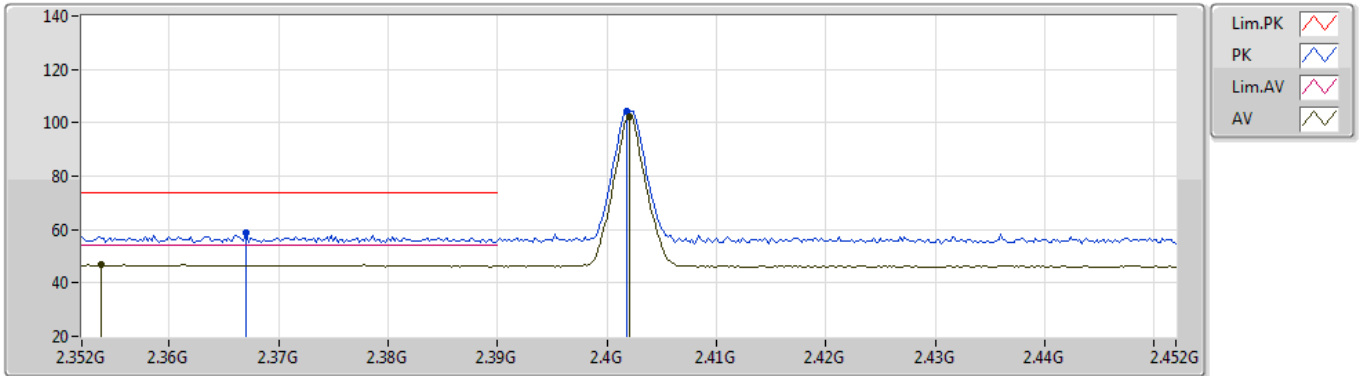


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3694G	46.88	54.00	-7.12	33.60	3	Vertical	59	1.26	-	13.28	27.66	5.94	-
AV	2.402G	98.16	Inf	-Inf	33.55	3	Vertical	59	1.26	-	64.61	27.59	5.96	-
PK	2.3742G	57.84	74.00	-16.16	33.59	3	Vertical	59	1.26	-	24.25	27.65	5.94	-
PK	2.4018G	99.98	Inf	-Inf	33.55	3	Vertical	59	1.26	-	66.43	27.59	5.96	-

BT-LE(1Mbps)

2402MHz_TX

09/09/2020

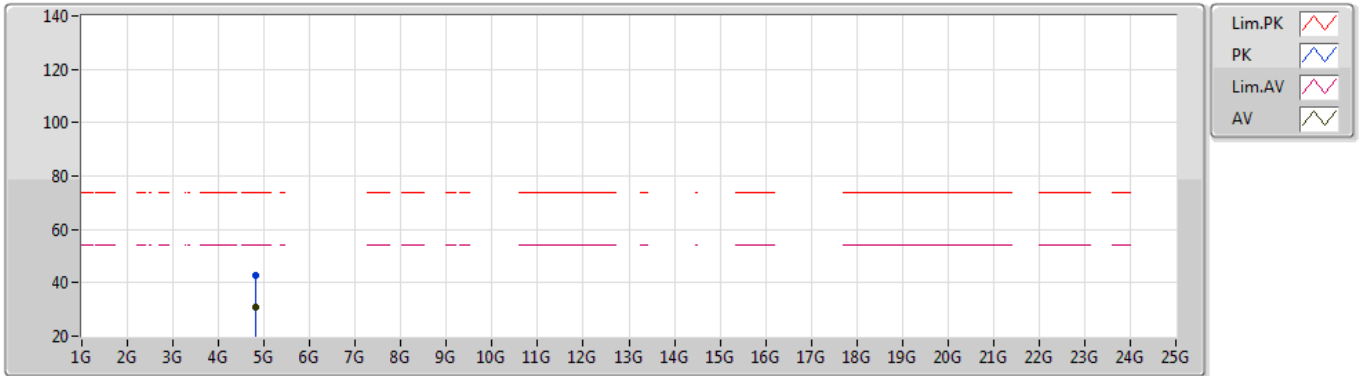


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3538G	47.00	54.00	-7.00	33.62	3	Horizontal	322	2.72	-	13.38	27.69	5.93	-
AV	2.402G	102.50	Inf	-Inf	33.55	3	Horizontal	322	2.72	-	68.95	27.59	5.96	-
PK	2.367G	58.89	74.00	-15.11	33.61	3	Horizontal	322	2.72	-	25.28	27.67	5.94	-
PK	2.4018G	104.37	Inf	-Inf	33.55	3	Horizontal	322	2.72	-	70.82	27.59	5.96	-

BT-LE(1Mbps)

2402MHz_TX

09/09/2020

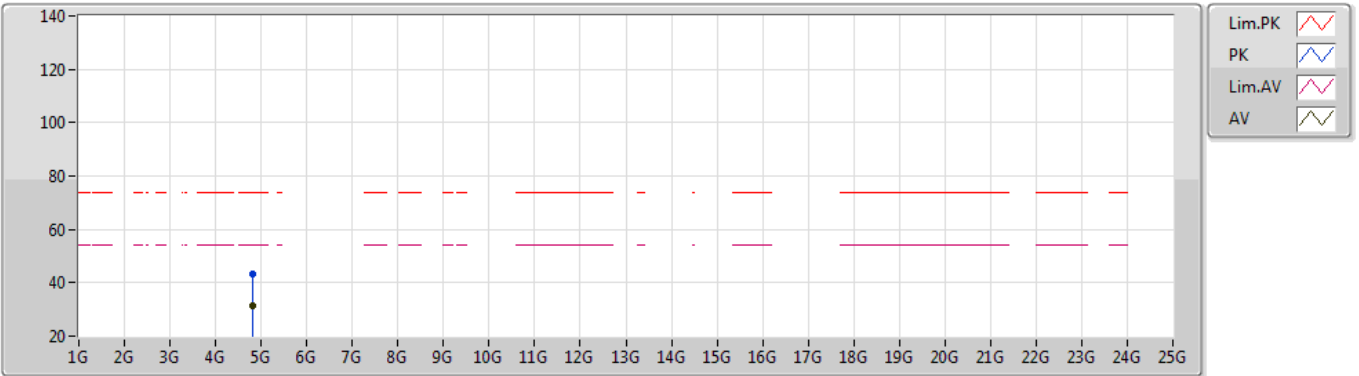


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.81354G	30.87	54.00	-23.13	5.30	3	Vertical	155	1.06	-	25.57	30.95	8.26	33.91
PK	4.8061G	43.01	74.00	-30.99	5.26	3	Vertical	155	1.06	-	37.75	30.92	8.25	33.91

BT-LE(1Mbps)

2402MHz_TX

09/09/2020

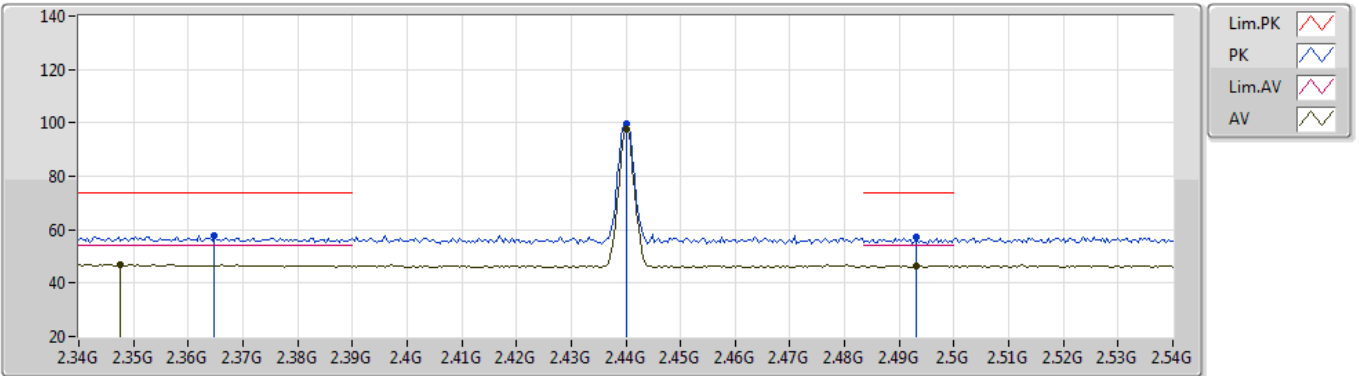


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80442G	31.29	54.00	-22.71	5.26	3	Horizontal	0	2.52	-	26.03	30.92	8.25	33.91
PK	4.80436G	43.22	74.00	-30.78	5.26	3	Horizontal	0	2.52	-	37.96	30.92	8.25	33.91

BT-LE(1Mbps)

2440MHz_TX

09/09/2020

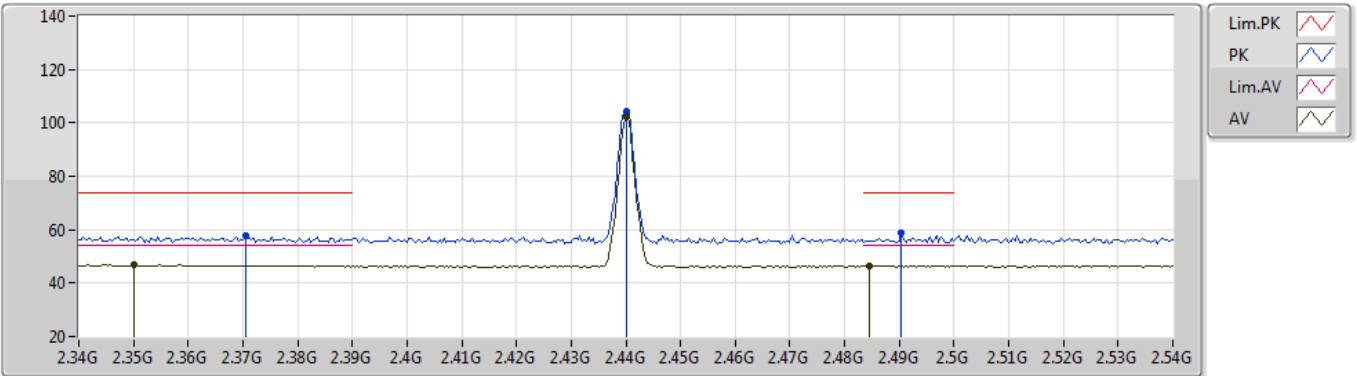


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3476G	47.00	54.00	-7.00	33.63	3	Vertical	61	1.22	-	13.37	27.71	5.92	-
AV	2.44G	97.84	Inf	-Inf	33.45	3	Vertical	61	1.22	-	64.39	27.44	6.01	-
AV	2.4932G	46.58	54.00	-7.42	33.47	3	Vertical	61	1.22	-	13.11	27.40	6.07	-
PK	2.3648G	57.84	74.00	-16.16	33.60	3	Vertical	61	1.22	-	24.24	27.67	5.93	-
PK	2.44G	99.64	Inf	-Inf	33.45	3	Vertical	61	1.22	-	66.19	27.44	6.01	-
PK	2.4932G	57.35	74.00	-16.65	33.47	3	Vertical	61	1.22	-	23.88	27.40	6.07	-

BT-LE(1Mbps)

2440MHz_TX

09/09/2020

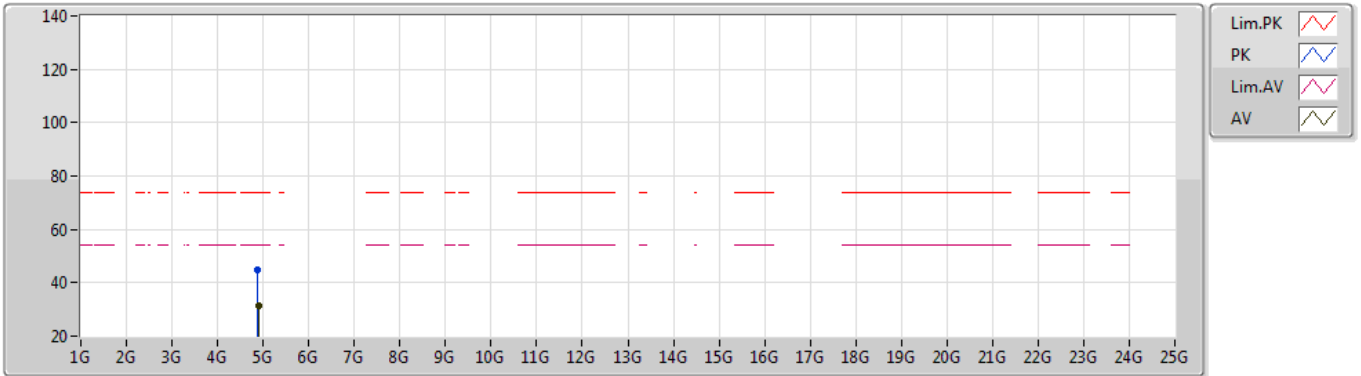


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.35G	46.89	54.00	-7.11	33.62	3	Horizontal	303	1.09	-	13.27	27.70	5.92	-
AV	2.44G	102.30	Inf	-Inf	33.45	3	Horizontal	303	1.09	-	68.85	27.44	6.01	-
AV	2.4844G	46.60	54.00	-7.40	33.46	3	Horizontal	303	1.09	-	13.14	27.40	6.06	-
PK	2.3704G	57.51	74.00	-16.49	33.60	3	Horizontal	303	1.09	-	23.91	27.66	5.94	-
PK	2.44G	104.43	Inf	-Inf	33.45	3	Horizontal	303	1.09	-	70.98	27.44	6.01	-
PK	2.4904G	58.79	74.00	-15.21	33.47	3	Horizontal	303	1.09	-	25.32	27.40	6.07	-

BT-LE(1Mbps)

2440MHz_TX

09/09/2020

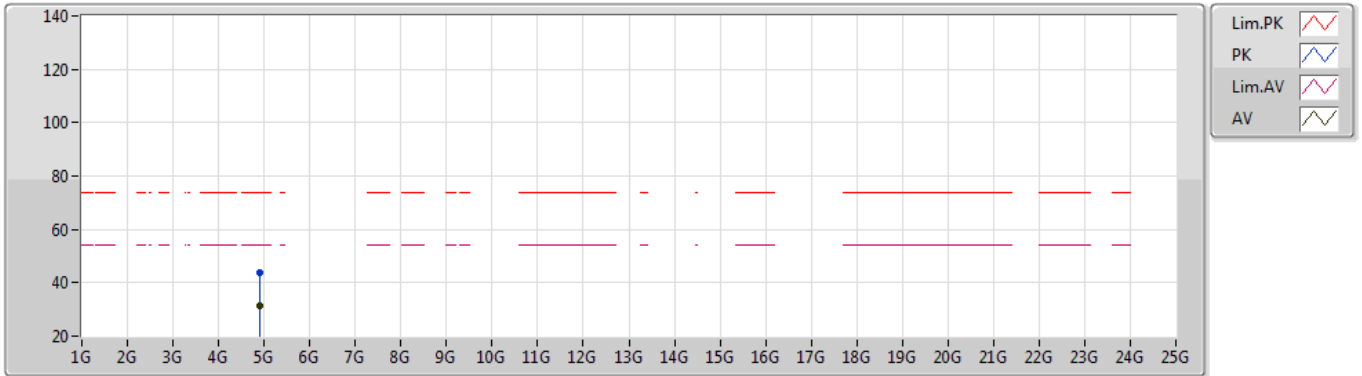


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.89092G	31.42	54.00	-22.58	5.47	3	Vertical	54	2.13	-	25.95	31.02	8.31	33.86
PK	4.8749G	44.61	74.00	-29.39	5.48	3	Vertical	54	2.13	-	39.13	31.05	8.30	33.87

BT-LE(1Mbps)

2440MHz_TX

09/09/2020

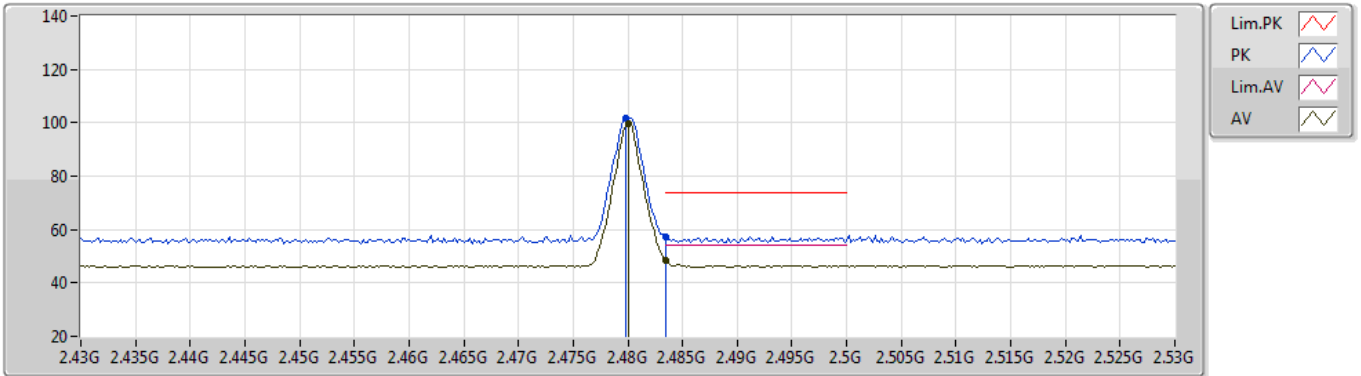


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8938G	31.56	54.00	-22.44	5.46	3	Horizontal	324	2.44	-	26.10	31.01	8.31	33.86
PK	4.89458G	43.81	74.00	-30.19	5.46	3	Horizontal	324	2.44	-	38.35	31.01	8.31	33.86

BT-LE(1Mbps)

2480MHz_TX

09/09/2020

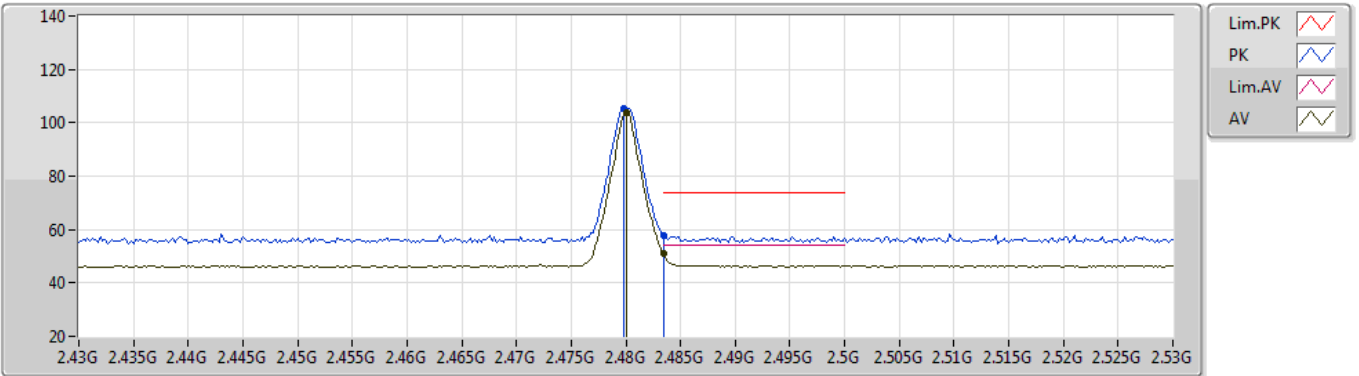


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	99.82	Inf	-Inf	33.46	3	Vertical	66	1.31	-	66.36	27.40	6.06	-
AV	2.4835G	48.60	54.00	-5.40	33.46	3	Vertical	66	1.31	-	15.14	27.40	6.06	-
PK	2.4798G	101.57	Inf	-Inf	33.46	3	Vertical	66	1.31	-	68.11	27.40	6.06	-
PK	2.4835G	57.28	74.00	-16.72	33.46	3	Vertical	66	1.31	-	23.82	27.40	6.06	-

BT-LE(1Mbps)

2480MHz_TX

09/09/2020

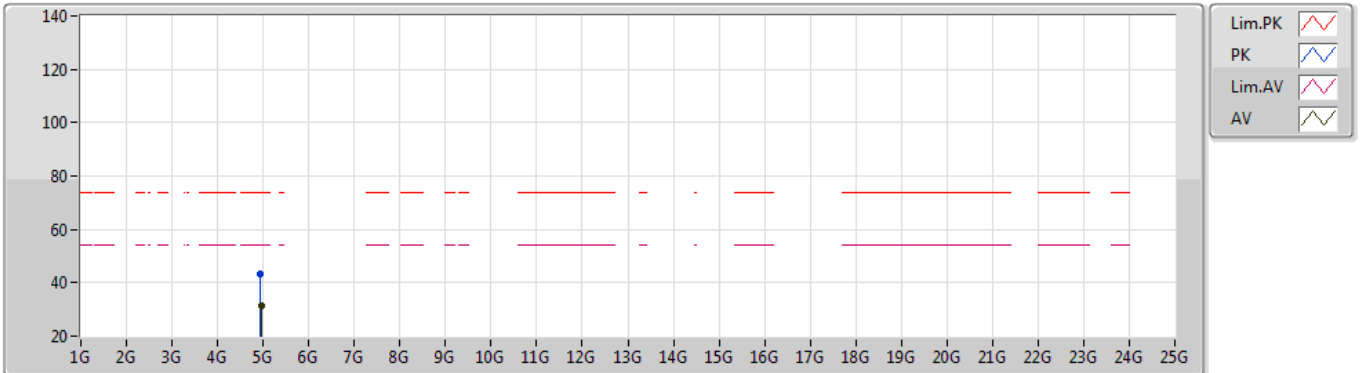


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	103.63	Inf	-Inf	33.46	3	Horizontal	302	1.08	-	70.17	27.40	6.06	-
AV	2.4835G	50.84	54.00	-3.16	33.46	3	Horizontal	302	1.08	-	17.38	27.40	6.06	-
PK	2.4798G	105.34	Inf	-Inf	33.46	3	Horizontal	302	1.08	-	71.88	27.40	6.06	-
PK	2.4835G	58.01	74.00	-15.99	33.46	3	Horizontal	302	1.08	-	24.55	27.40	6.06	-

BT-LE(1Mbps)

2480MHz_TX

09/09/2020

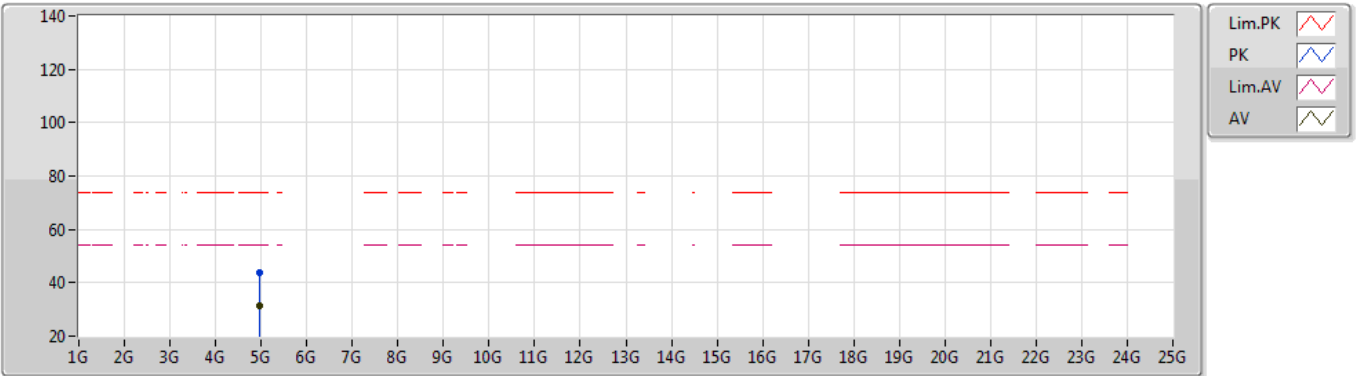


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96342G	31.23	54.00	-22.77	5.77	3	Vertical	323	1.72	-	25.46	31.23	8.36	33.82
PK	4.94902G	43.30	74.00	-30.70	5.72	3	Vertical	323	1.72	-	37.58	31.20	8.35	33.83

BT-LE(1Mbps)

2480MHz_TX

09/09/2020

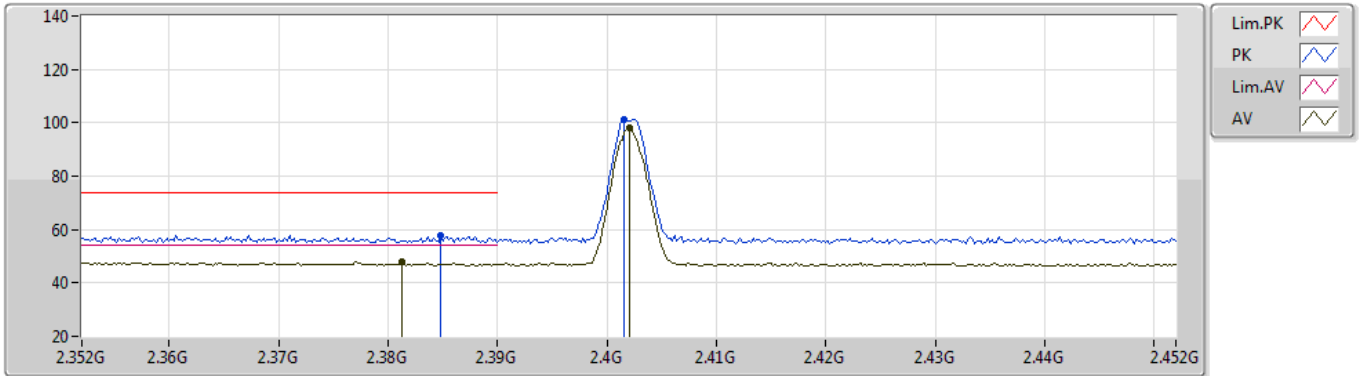


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.97062G	31.57	54.00	-22.43	5.78	3	Horizontal	1	2.43	-	25.79	31.24	8.36	33.82
PK	4.96114G	43.82	74.00	-30.18	5.75	3	Horizontal	1	2.43	-	38.07	31.22	8.35	33.82

BT-LE(2Mbps)

09/09/2020

2402MHz_TX

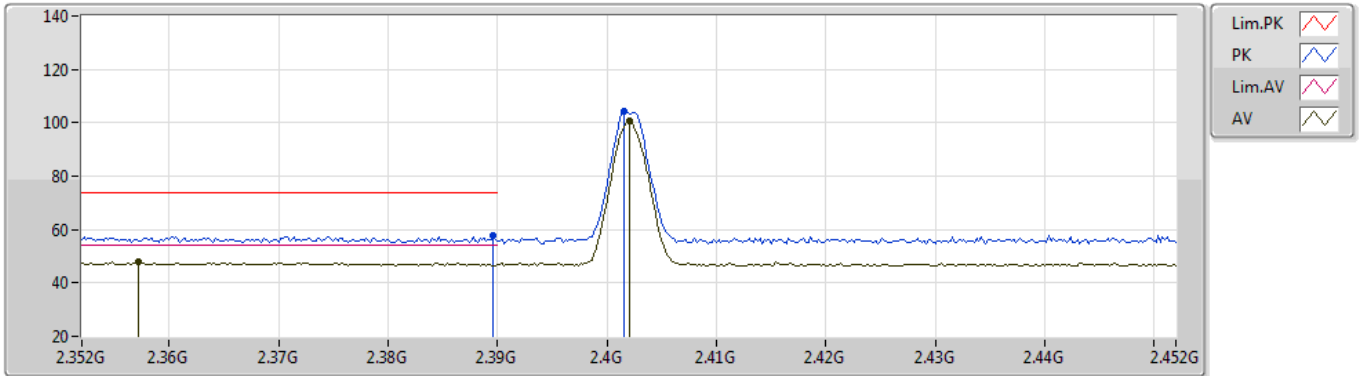


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3812G	47.75	54.00	-6.25	33.59	3	Vertical	284	3.00	-	14.16	27.64	5.95	-
AV	2.402G	97.92	Inf	-Inf	33.55	3	Vertical	284	3.00	-	64.37	27.59	5.96	-
PK	2.3848G	58.01	74.00	-15.99	33.58	3	Vertical	284	3.00	-	24.43	27.63	5.95	-
PK	2.4016G	101.33	Inf	-Inf	33.55	3	Vertical	284	3.00	-	67.78	27.59	5.96	-

BT-LE(2Mbps)

09/09/2020

2402MHz_TX

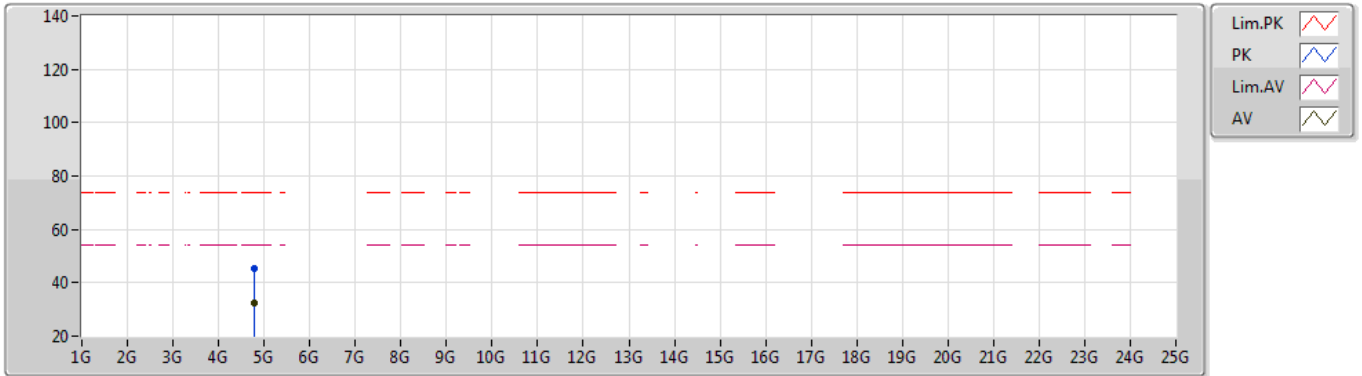


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3572G	47.90	54.00	-6.10	33.62	3	Horizontal	324	2.49	-	14.28	27.69	5.93	-
AV	2.402G	100.66	Inf	-Inf	33.55	3	Horizontal	324	2.49	-	67.11	27.59	5.96	-
PK	2.3896G	57.58	74.00	-16.42	33.57	3	Horizontal	324	2.49	-	24.01	27.62	5.95	-
PK	2.4016G	104.09	Inf	-Inf	33.55	3	Horizontal	324	2.49	-	70.54	27.59	5.96	-

BT-LE(2Mbps)

09/09/2020

2402MHz_TX

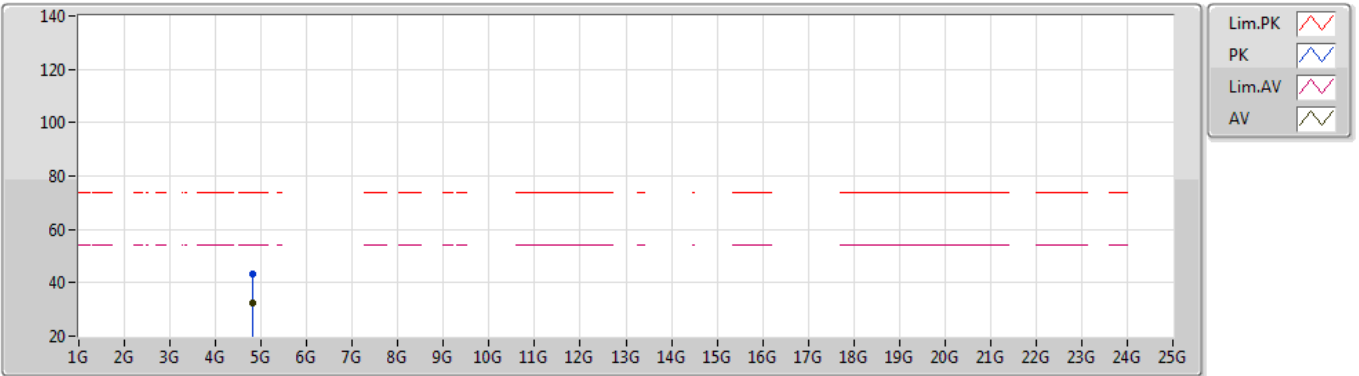


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.79452G	32.67	54.00	-21.33	5.25	3	Vertical	132	2.88	-	27.42	30.92	8.25	33.92
PK	4.79428G	45.35	74.00	-28.65	5.25	3	Vertical	132	2.88	-	40.10	30.92	8.25	33.92

BT-LE(2Mbps)

09/09/2020

2402MHz_TX

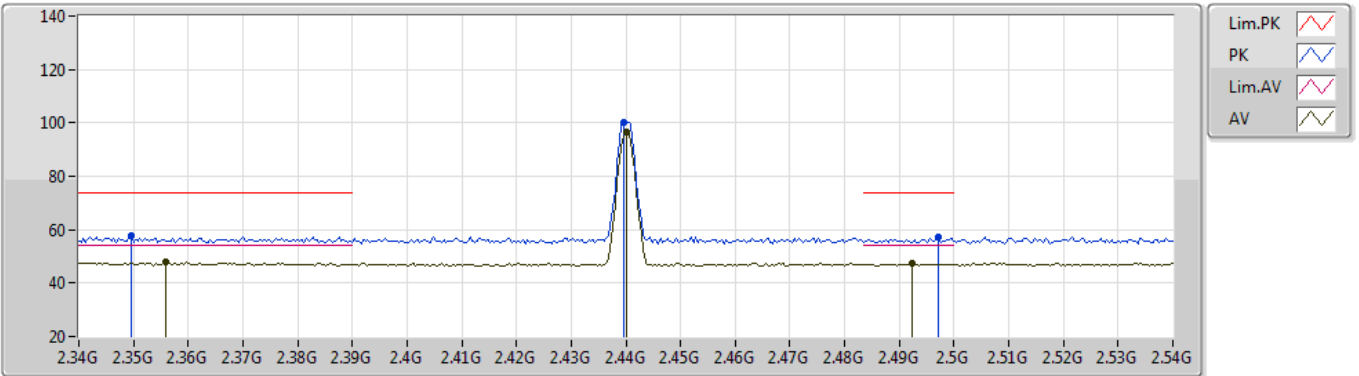


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8004G	32.42	54.00	-21.58	5.23	3	Horizontal	125	1.42	-	27.19	30.90	8.25	33.92
PK	4.80148G	43.38	74.00	-30.62	5.24	3	Horizontal	125	1.42	-	38.14	30.91	8.25	33.92

BT-LE(2Mbps)

2440MHz_TX

09/09/2020

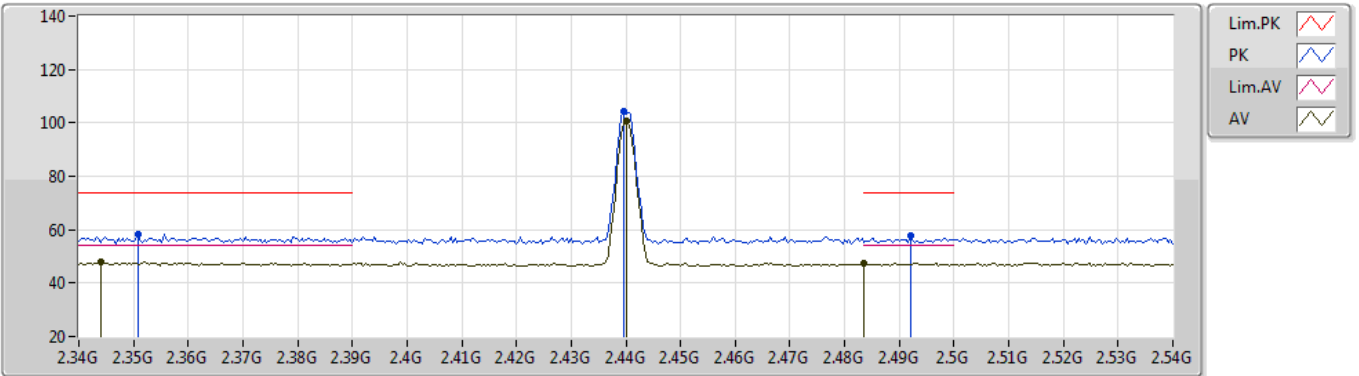


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.356G	48.12	54.00	-5.88	33.62	3	Vertical	86	1.18	-	14.50	27.69	5.93	-
AV	2.44G	96.76	Inf	-Inf	33.45	3	Vertical	86	1.18	-	63.31	27.44	6.01	-
AV	2.4924G	47.22	54.00	-6.78	33.47	3	Vertical	86	1.18	-	13.75	27.40	6.07	-
PK	2.3496G	57.94	74.00	-16.06	33.62	3	Vertical	86	1.18	-	24.32	27.70	5.92	-
PK	2.4396G	100.22	Inf	-Inf	33.45	3	Vertical	86	1.18	-	66.77	27.44	6.01	-
PK	2.4972G	57.08	74.00	-16.92	33.48	3	Vertical	86	1.18	-	23.60	27.40	6.08	-

BT-LE(2Mbps)

2440MHz_TX

09/09/2020

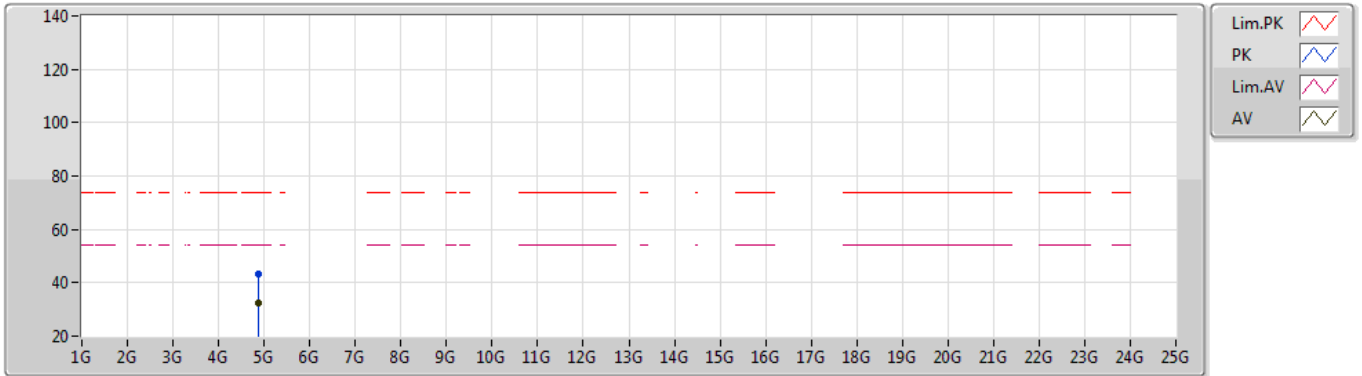


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.344G	47.71	54.00	-6.29	33.64	3	Horizontal	325	3.00	-	14.07	27.72	5.92	-
AV	2.44G	100.60	Inf	-Inf	33.45	3	Horizontal	325	3.00	-	67.15	27.44	6.01	-
AV	2.4835G	47.31	54.00	-6.69	33.46	3	Horizontal	325	3.00	-	13.85	27.40	6.06	-
PK	2.3508G	58.22	74.00	-15.78	33.62	3	Horizontal	325	3.00	-	24.60	27.70	5.92	-
PK	2.4396G	104.07	Inf	-Inf	33.45	3	Horizontal	325	3.00	-	70.62	27.44	6.01	-
PK	2.492G	57.54	74.00	-16.46	33.47	3	Horizontal	325	3.00	-	24.07	27.40	6.07	-

BT-LE(2Mbps)

2440MHz_TX

09/09/2020

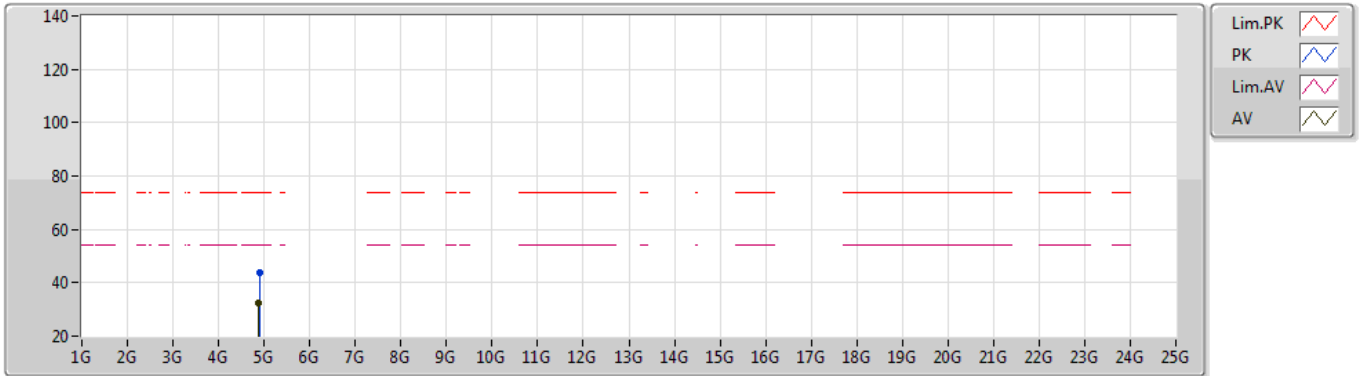


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88696G	32.48	54.00	-21.52	5.47	3	Vertical	204	1.49	-	27.01	31.03	8.31	33.87
PK	4.88036G	43.38	74.00	-30.62	5.47	3	Vertical	204	1.49	-	37.91	31.04	8.30	33.87

BT-LE(2Mbps)

09/09/2020

2440MHz_TX

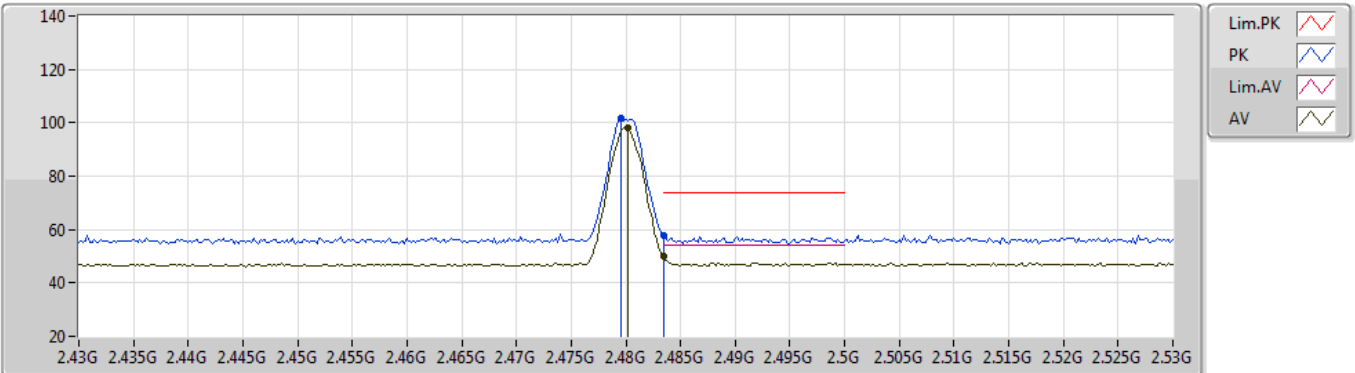


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.86992G	32.47	54.00	-21.53	5.48	3	Horizontal	289	1.49	-	26.99	31.06	8.30	33.88
PK	4.89332G	44.04	74.00	-29.96	5.46	3	Horizontal	289	1.49	-	38.58	31.01	8.31	33.86

BT-LE(2Mbps)

09/09/2020

2480MHz_TX

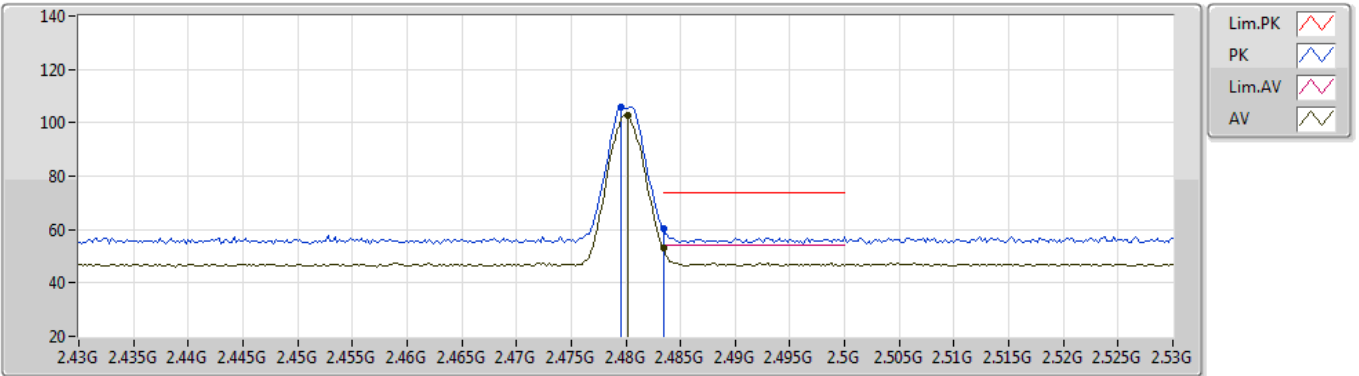


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4802G	98.21	Inf	-Inf	33.46	3	Vertical	75	1.00	-	64.75	27.40	6.06	-
AV	2.4835G	49.92	54.00	-4.08	33.46	3	Vertical	75	1.00	-	16.46	27.40	6.06	-
PK	2.4796G	101.61	Inf	-Inf	33.46	3	Vertical	75	1.00	-	68.15	27.40	6.06	-
PK	2.4835G	57.60	74.00	-16.40	33.46	3	Vertical	75	1.00	-	24.14	27.40	6.06	-

BT-LE(2Mbps)

09/09/2020

2480MHz_TX

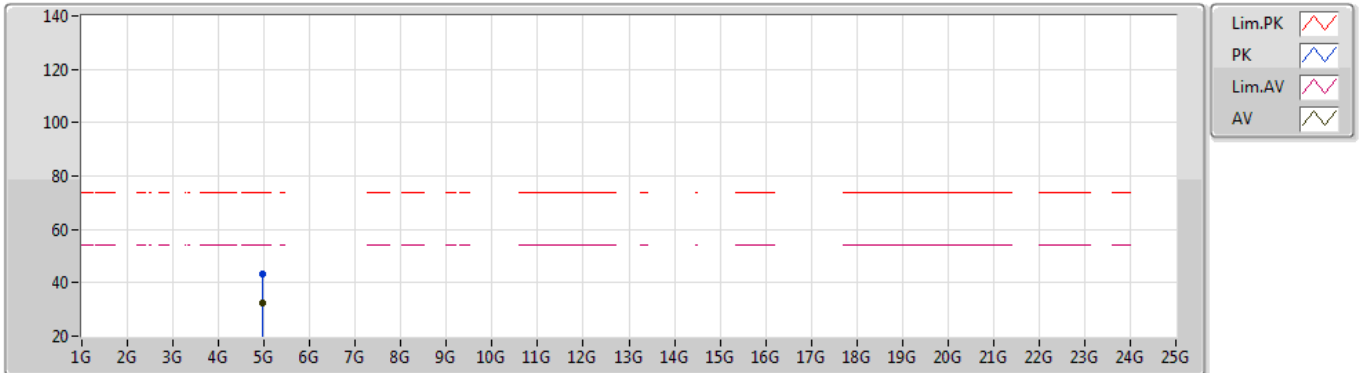


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4802G	102.83	Inf	-Inf	33.46	3	Horizontal	320	1.01	-	69.37	27.40	6.06	-
AV	2.4835G	53.14	54.00	-0.86	33.46	3	Horizontal	320	1.01	-	19.68	27.40	6.06	-
PK	2.4796G	106.10	Inf	-Inf	33.46	3	Horizontal	320	1.01	-	72.64	27.40	6.06	-
PK	2.4835G	60.60	74.00	-13.40	33.46	3	Horizontal	320	1.01	-	27.14	27.40	6.06	-

BT-LE(2Mbps)

09/09/2020

2480MHz_TX

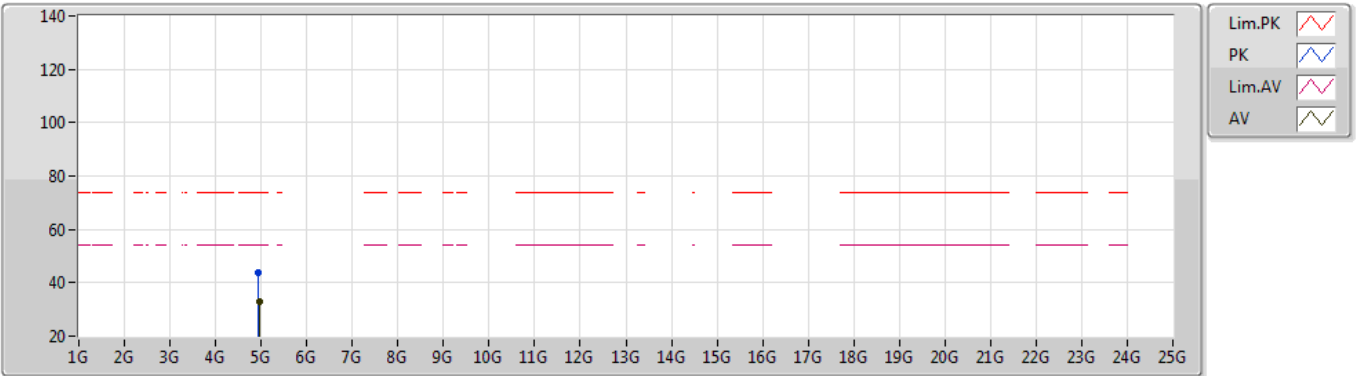


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96708G	32.55	54.00	-21.45	5.77	3	Vertical	279	1.49	-	26.78	31.23	8.36	33.82
PK	4.96246G	43.43	74.00	-30.57	5.76	3	Vertical	279	1.49	-	37.67	31.22	8.36	33.82

BT-LE(2Mbps)

2480MHz_TX

09/09/2020



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	4.954G	32.87	54.00	-21.13	5.73	3	Horizontal	128	2.67	-	27.14	31.21	8.35	33.83
PK	4.94932G	43.60	74.00	-30.40	5.72	3	Horizontal	128	2.67	-	37.88	31.20	8.35	33.83

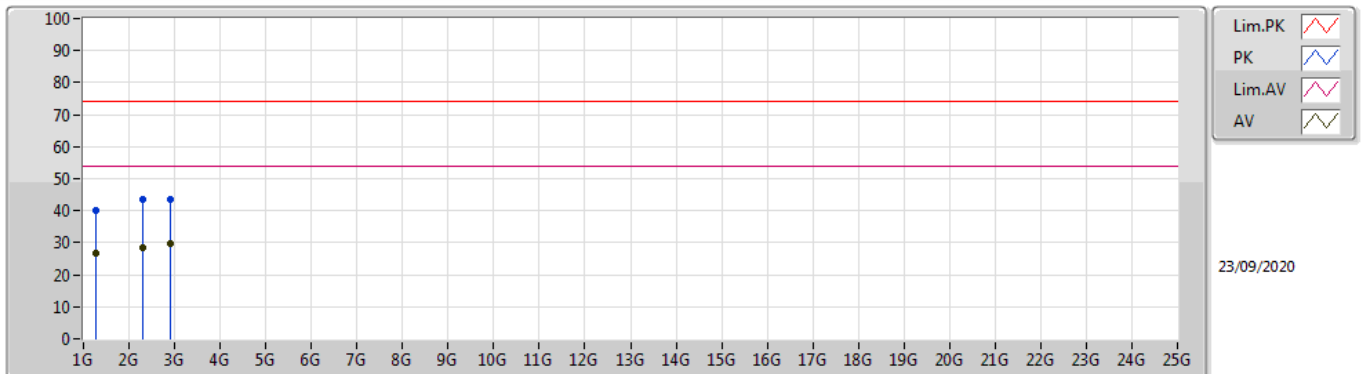
**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	2.892G	29.73	54.00	-24.27	Vertical

Mode Configure

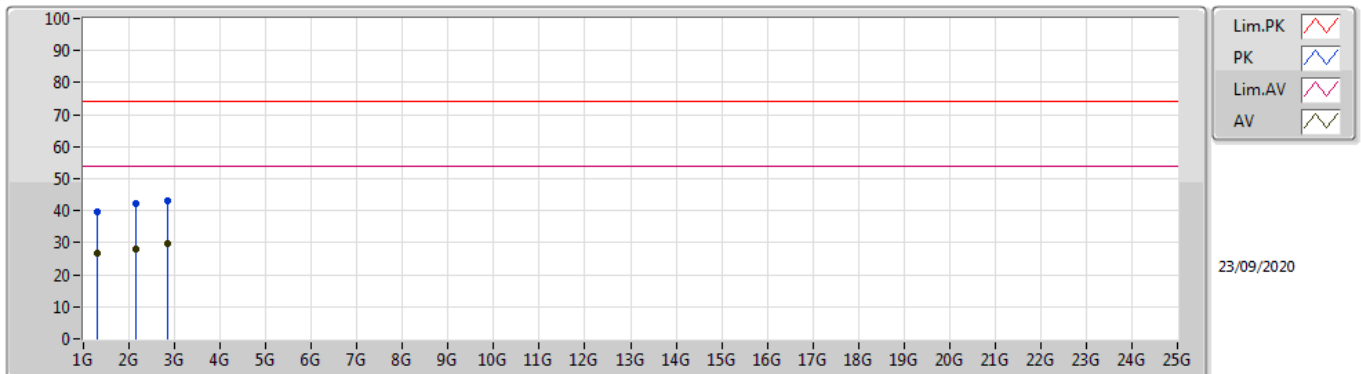
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	AV	1.276G	26.69	54.00	-27.31	3	Vertical	270	1.47	-
Mode 1	Pass	AV	2.292G	28.64	54.00	-25.36	3	Vertical	242	1.68	-
Mode 1	Pass	AV	2.892G	29.73	54.00	-24.27	3	Vertical	187	1.24	-
Mode 1	Pass	PK	1.276G	39.92	74.00	-34.08	3	Vertical	270	1.47	-
Mode 1	Pass	PK	2.292G	43.35	74.00	-30.65	3	Vertical	242	1.68	-
Mode 1	Pass	PK	2.892G	43.63	74.00	-30.37	3	Vertical	187	1.24	-
Mode 1	Pass	AV	1.308G	26.52	54.00	-27.48	3	Horizontal	134	1.75	-
Mode 1	Pass	AV	2.152G	28.15	54.00	-25.85	3	Horizontal	302	1.60	-
Mode 1	Pass	AV	2.848G	29.73	54.00	-24.27	3	Horizontal	254	1.07	-
Mode 1	Pass	PK	1.308G	39.86	74.00	-34.14	3	Horizontal	134	1.75	-
Mode 1	Pass	PK	2.152G	42.14	74.00	-31.86	3	Horizontal	302	1.60	-
Mode 1	Pass	PK	2.848G	43.26	74.00	-30.74	3	Horizontal	254	1.07	-

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.276G	26.69	54.00	-27.31	-4.42	3	Vertical	270	1.47	-	31.11	25.60	4.49	34.51
AV	2.292G	28.64	54.00	-25.36	-0.48	3	Vertical	242	1.68	-	29.12	27.92	5.88	34.28
AV	2.892G	29.73	54.00	-24.27	0.65	3	Vertical	187	1.24	-	29.08	28.37	6.48	34.20
PK	1.276G	39.92	74.00	-34.08	-4.42	3	Vertical	270	1.47	-	44.34	25.60	4.49	34.51
PK	2.292G	43.35	74.00	-30.65	-0.48	3	Vertical	242	1.68	-	43.83	27.92	5.88	34.28
PK	2.892G	43.63	74.00	-30.37	0.65	3	Vertical	187	1.24	-	42.98	28.37	6.48	34.20

Mode 1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
AV	1.308G	26.52	54.00	-27.48	-4.17	3	Horizontal	134	1.75	-	30.69	25.75	4.54	34.46
AV	2.152G	28.15	54.00	-25.85	-0.87	3	Horizontal	302	1.60	-	29.02	27.61	5.75	34.23
AV	2.848G	29.73	54.00	-24.27	0.42	3	Horizontal	254	1.07	-	29.31	28.20	6.44	34.22
PK	1.308G	39.86	74.00	-34.14	-4.17	3	Horizontal	134	1.75	-	44.03	25.75	4.54	34.46
PK	2.152G	42.14	74.00	-31.86	-0.87	3	Horizontal	302	1.60	-	43.01	27.61	5.75	34.23
PK	2.848G	43.26	74.00	-30.74	0.42	3	Horizontal	254	1.07	-	42.84	28.20	6.44	34.22