

FCC Test Report

FCC ID : 2ATD8-MN-01
Equipment : Mesh Node
Brand Name : Scandinavian Reach Technologies AS
Model Name : SRT MN-01
Applicant : Scandinavian Reach Technologies AS
Skjenet 11, 5354 Straume, Norway
Manufacturer : Topro Industri AS
Rambekkevegen 1, 2816 Gjøvik, Norway
Standard : 47 CFR FCC Part 15.247

The product was received on Sep. 10, 2019, and testing was started from Sep. 13, 2019 and completed on Oct. 14, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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History of this test report

TEL : 886-3-3273456
FAX : 886-3-3270973
Report Template No.: HE1-C10 Ver3.6
FCC ID: 2ATD8-MN-01

Summary of Test Result

Report Clause	Ref.Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.3	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: Jackson Tsai

Report Producer: Jenny Yang

1 General Description

1.1 Information

1.1.1 Abbreviation

EUT: Unit under test

BW: Bandwidth

BWch: Bandwidth per channel

1.1.2 RF General Information

Frequency Range (MHz)	Bluetooth Mode	Channel 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
2.4-2.4835GHz	BT-LE(125kbps)	2.0	1TX

Note:

- ♦ Bluetooth LE uses a GFSK (125kbps/1Mbps/2Mbps) modulation for DSSS.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Nant is the number of outputs.

1.1.3 Antenna Information

Antenna	Brand	Model Name	Antenna Type	Connector
1	Texas Instruments	DN007	PCB	N/A
2	Texas Instruments	DN007	PCB	N/A
3	Texas Instruments	DN038	PCB	N/A
4	pulselarsen	W5017	Dipole	I-Pex

Antenna	Port	Gain (dBi)		
		2.4G Prop	BT	Sub-1GHz
1	1	-	3.3	-
2	1	3.3	-	-
3	1	-	-	0.01
4	2	-	-	0.9

Note 1: The EUT has four antennas.

For 2.4GHz Prop function:

For 2.4GHz Prop mode (1TX/1RX)

Ant. 2 (port 1) can be used as transmitting/receiving antenna.

For BT function:

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

Ant. 1 (port 1) can be used as transmitting/receiving antenna.

For Sub-1GHz function:

For Sub-1GHz mode (1TX/1RX)

Ant. 3 (port 1) or Ant. 4 (port 2) can be used as transmitting/receiving antenna.

1.1.4 EUT Information

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

1.1.5 Mode Test Duty Cycle

Mode	Duty Cycle	Duty Cycle Factor (dB)	T(s)	VBW(Hz) $\geq 1/T$
BT-LE(1Mbps)	0.107	9.71	2.131m	1k
BT-LE(125kbps)	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
BT-LE(2Mbps)	0.108	9.67	1.076m	1k

Note. If Duty Cycle < 0.98, the Duty Cycle Factor 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
- ♦ 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.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Edward Wang	22.3~23.8°C / 64.3~66.2%	13/Sep/2019
RF Conducted	TH06-HY	Gary Wang	23.1~26°C / 61~67%	19/Sep/2019~ 01/Oct/2019
Radiated	03CH02-HY	Edward Wang	22.3~23.7°C / 65.3~69.2%	13/Sep/2019~ 14/Oct/2019

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)	3.54 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	1.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	3.7V

2.2 Test Channel Mode

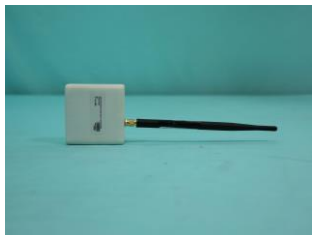
Test Software	Command
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Mode	Power Setting
BT-LE(1Mbps)	-
2402MHz	default
2441MHz	default
2480MHz	default
BT-LE(2Mbps)	-
2402MHz	default
2441MHz	default
2480MHz	default
BT-LE(125kbps)	-
2402MHz	default
2441MHz	default
2480MHz	default

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
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/CRX		
1	Adapter mode		
Operating Mode > 1GHz	CTX/CRX		
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
Operating Mode	CTX
1	Sub-1GHz + 2.4G Prop + Bluetooth
Refer to Sporton Test Report No.: FA990210 for Co-location RF Exposure Evaluation.	

2.4 Support Equipment

Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	AC adapter	ARTESYN	DA10-050EU	-

Note: Support equipment No.1 was provided by customer.

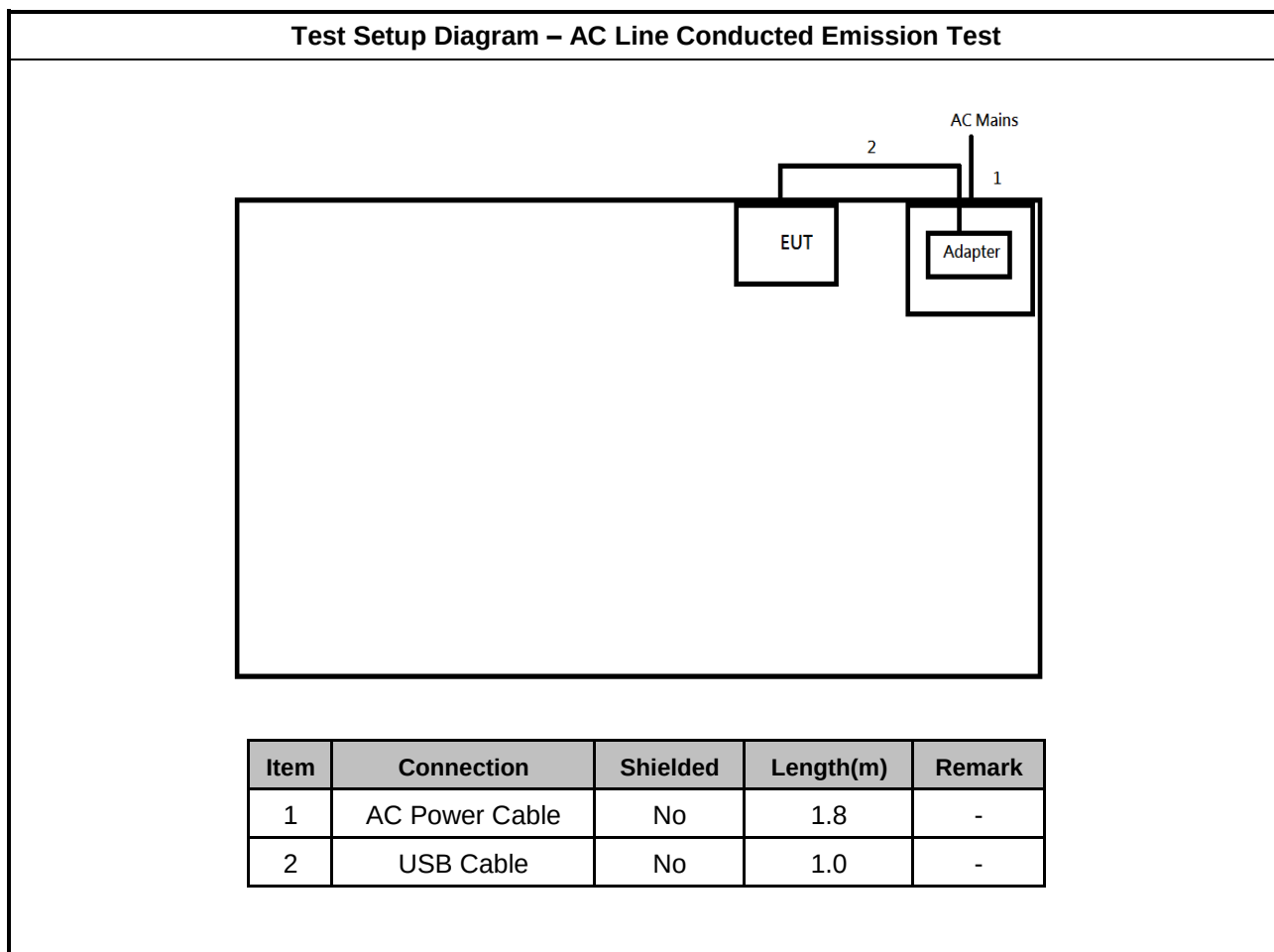
Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Laptop	HP	EliteBook 820	-
2	Adapter for Laptop	HP	HSTNN-DA40	-

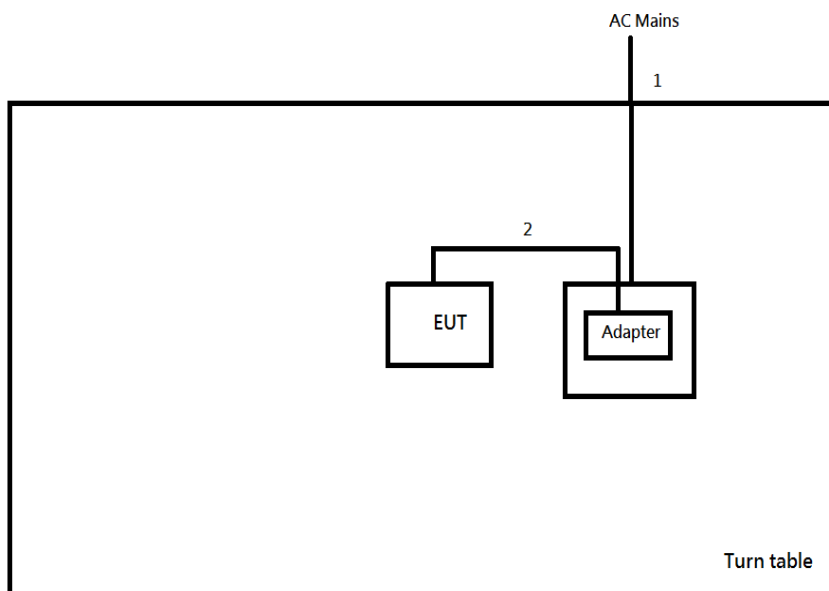
Note: Support equipment No.1 & 2 were provided by customer.

Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	AC adapter	ARTESYN	DA10-050EU	-

Note: Support equipment No.1 was provided by customer.

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	USB Cable	No	1.0	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

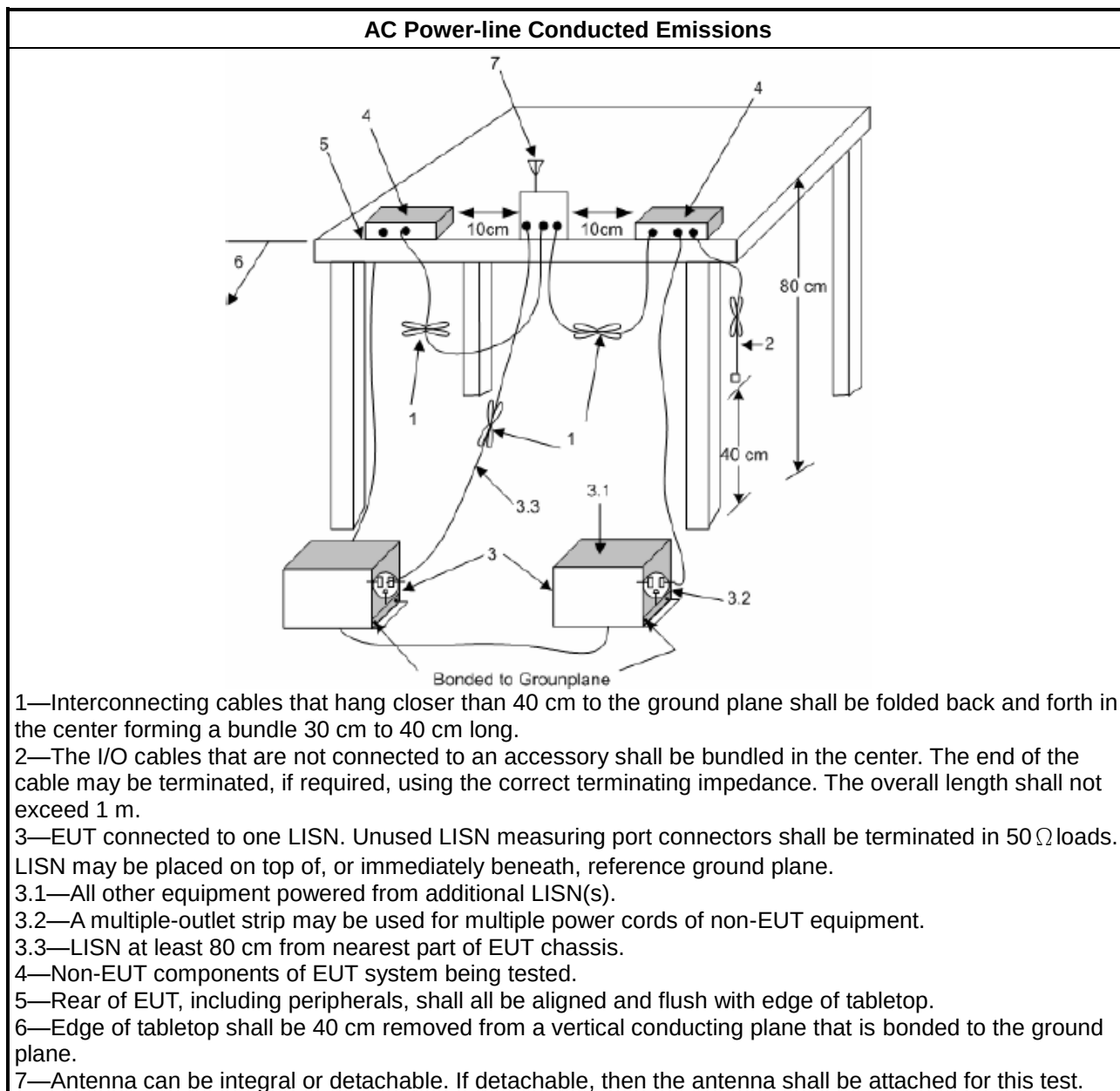
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

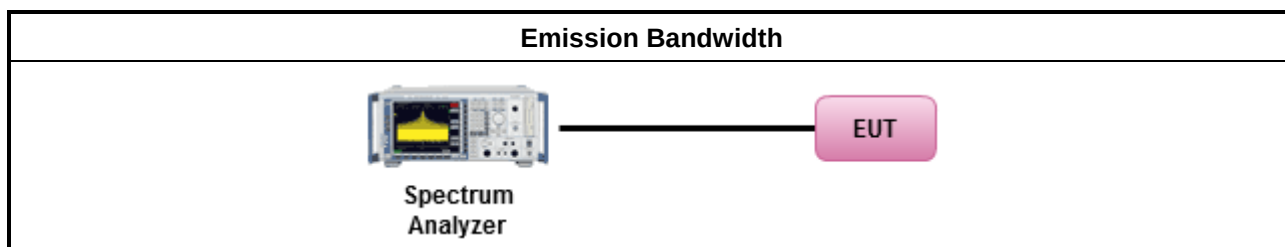
3.2.2 Measuring Instruments

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.	

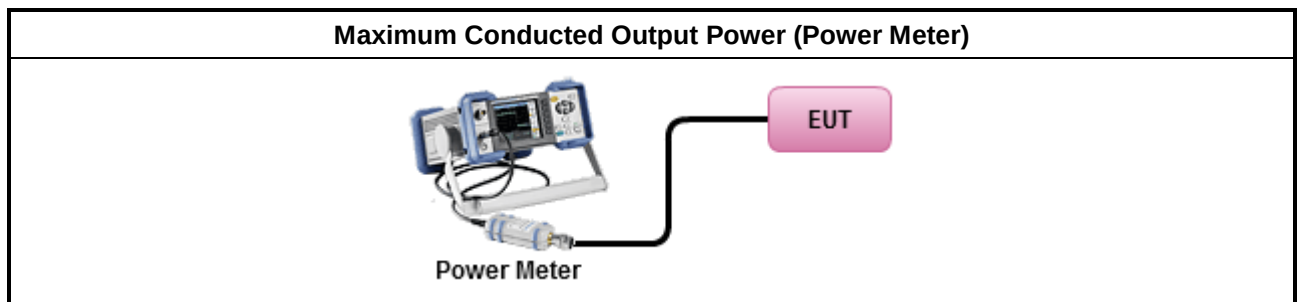
3.3.2 Measuring Instruments

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

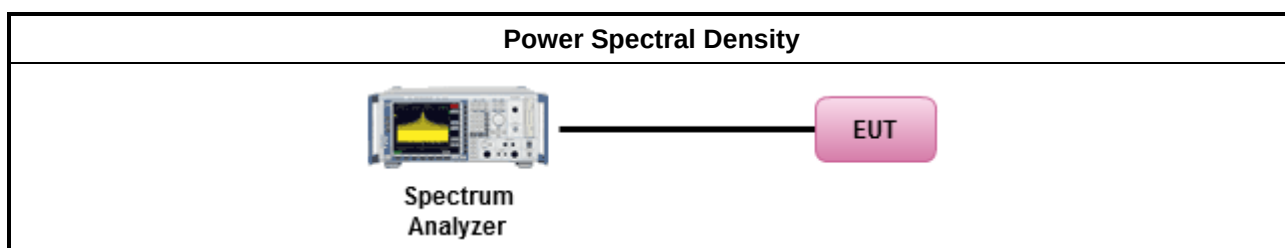
3.4.2 Measuring Instruments

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) Method PKPSD.
▪	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.	

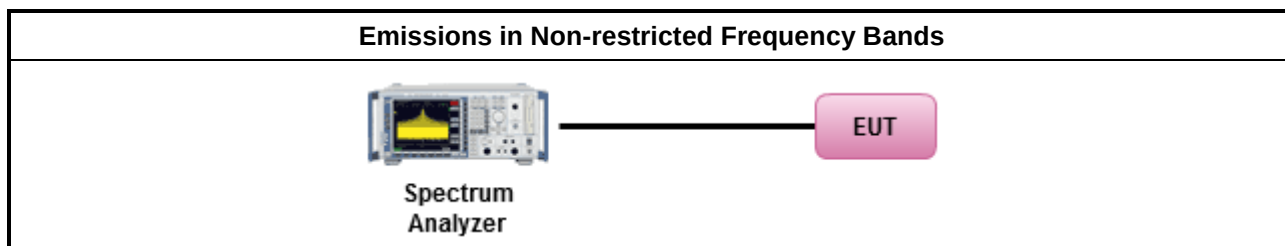
3.5.2 Measuring Instruments

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.

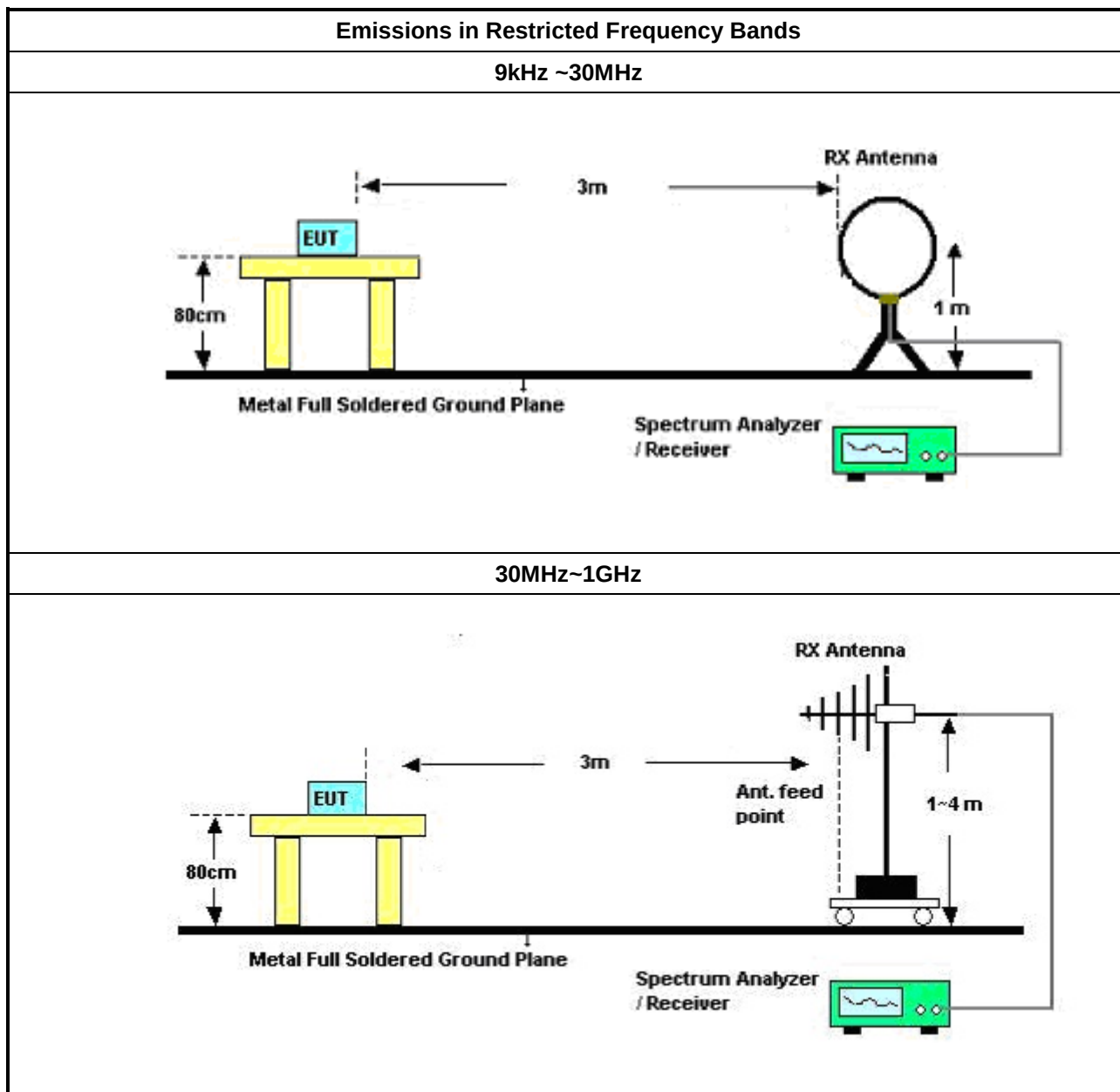
3.6.2 Measuring Instruments

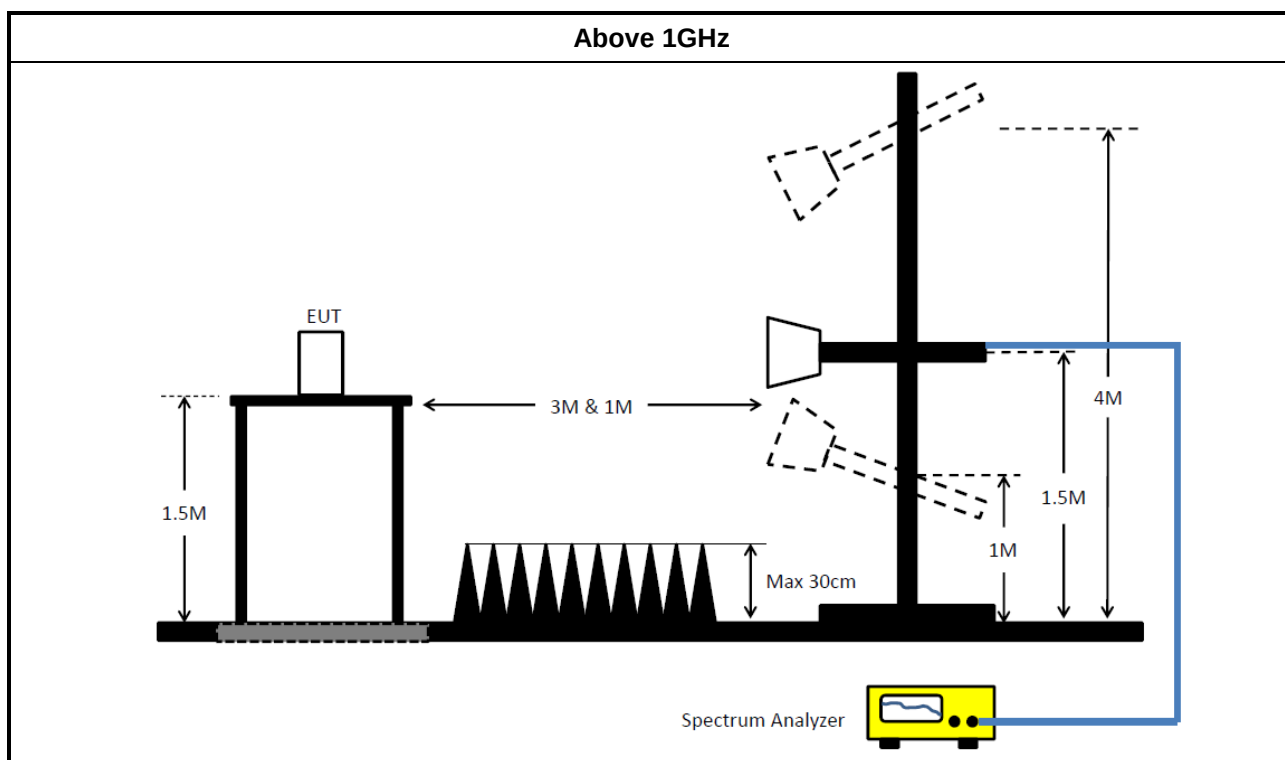
Refer a test equipment and calibration data table in this test report.

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 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.

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	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	08/Nov/2018	07/Nov/2019
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	17/Sep/2018	16/Sep/2019
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	12/Oct/2018	11/Oct/2019

NCR : Non-Calibration Require

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	10Hz~40GHz	13/Mar/2019	12/Mar/2020
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	19/Feb/2019	18/Feb/2020
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	19/Feb/2019	18/Feb/2020
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.2m	HUBER	MY10711/4	RF Cable - 02	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.5m	HUBER	MY10714/4	RF Cable – 05	30MHz~1G	10/Jan/2019	09/Jan/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020

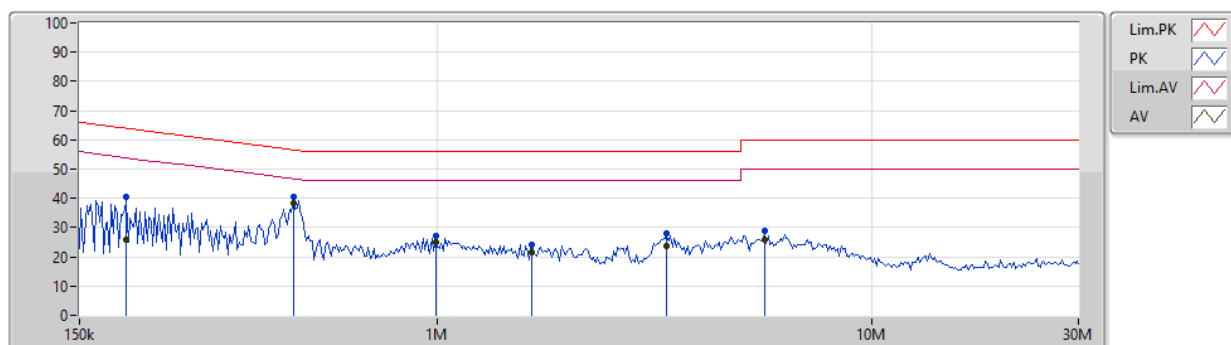
Instrument for Radiated Test

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	19/Oct/2018	18/Oct/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	17/Oct/2018	16/Oct/2019
Amplifier	Agilent	8447D	2944A11149	100kHz ~ 1.3GHz	02Jul/2019	01/Jul/2020
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	23/Oct/2018	22/Oct/2019
Spectrum Analyzer	Rohde & Schwarz	FSP40	100593	9KHz - 40GHz	27/Dec/2018	26/Dec/2019
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	26/Mar/2019	25/Mar/2020
RF Cable-high 6m	SUHNER	SUCOFLEX104	10567868 / SN805193/4	1GHz~40GHz	09/Apr/2019	08/Apr/2020
RF Cable-high 7m	SUHNER	SUCOFLEX104	10567868 / SN805192/4	1GHz~40GHz	09/Apr/2019	08/Apr/2020
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz ~ 1GHz	08/Sep/2019	07/Sep/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz ~ 40GHz	22/Mar/2019	21/Mar/2020
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	05/Aug/2019	04/Aug/2020
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	15/Mar/2019	14/Mar/2020
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz ~ 18GHz	03/Jun/2019	02/Jun/2020

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Adapter mode		

13/09/2019

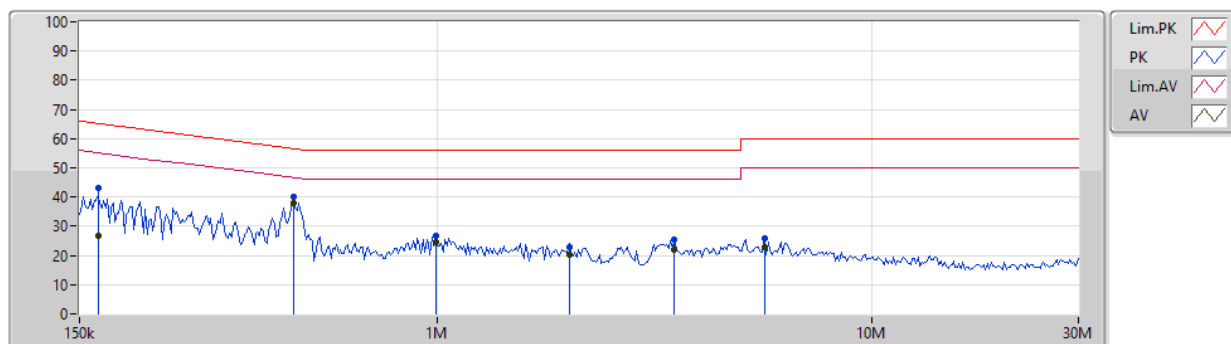


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	192.365k	40.44	63.93	-23.49	19.47	Neutral	-	20.97	9.59	0.01	9.87			
AV	192.365k	25.89	53.93	-28.04	19.47	Neutral	-	6.42	9.59	0.01	9.87			
QP	466.367k	40.46	56.57	-16.11	19.48	Neutral	-	20.98	9.59	0.01	9.88			
AV	466.367k	38.35	46.57	-8.22	19.48	Neutral	"Worst"	18.87	9.59	0.01	9.88			
QP	993.464k	27.17	56.00	-28.83	19.49	Neutral	-	7.68	9.59	0.02	9.88			
AV	993.464k	25.17	46.00	-20.83	19.49	Neutral	-	5.68	9.59	0.02	9.88			
QP	1.65M	24.14	56.00	-31.86	19.52	Neutral	-	4.62	9.60	0.03	9.89			
AV	1.65M	21.66	46.00	-24.34	19.52	Neutral	-	2.14	9.60	0.03	9.89			
QP	3.378M	27.89	56.00	-28.11	19.54	Neutral	-	8.35	9.61	0.04	9.89			
AV	3.378M	23.68	46.00	-22.32	19.54	Neutral	-	4.14	9.61	0.04	9.89			
QP	5.668M	28.93	60.00	-31.07	19.57	Neutral	-	9.36	9.63	0.05	9.89			
AV	5.668M	26.06	50.00	-23.94	19.57	Neutral	-	6.49	9.63	0.05	9.89			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Adapter mode		

13/09/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	165.693k	42.94	65.18	-22.24	19.48	Line	-	23.46	9.60	0.01	9.87			
AV	165.693k	26.74	55.18	-28.44	19.48	Line	-	7.26	9.60	0.01	9.87			
QP	466.367k	39.88	56.57	-16.69	19.48	Line	-	20.40	9.59	0.01	9.88			
AV	466.367k	37.72	46.57	-8.85	19.48	Line	"Worst"	18.24	9.59	0.01	9.88			
QP	993.464k	26.57	56.00	-29.43	19.50	Line	-	7.07	9.60	0.02	9.88			
AV	993.464k	24.44	46.00	-21.56	19.50	Line	-	4.94	9.60	0.02	9.88			
QP	2.014M	23.06	56.00	-32.94	19.54	Line	-	3.52	9.62	0.03	9.89			
AV	2.014M	20.33	46.00	-25.67	19.54	Line	-	0.79	9.62	0.03	9.89			
QP	3.515M	25.26	56.00	-30.74	19.56	Line	-	5.70	9.63	0.04	9.89			
AV	3.515M	22.03	46.00	-23.97	19.56	Line	-	2.47	9.63	0.04	9.89			
QP	5.668M	25.83	60.00	-34.17	19.59	Line	-	6.24	9.65	0.05	9.89			
AV	5.668M	23.00	50.00	-27.00	19.59	Line	-	3.41	9.65	0.05	9.89			

**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)	710k	1.063M	1M06F1D	707.5k	1.059M
BT-LE(2Mbps)	1.303M	2.066M	2M07F1D	1.298M	2.061M
BT-LE(125kbps)	705k	1.087M	1M09F1D	677.5k	1.074M

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	708.75k	1.059M
2441MHz	Pass	500k	707.5k	1.061M
2480MHz	Pass	500k	710k	1.063M
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	500k	1.298M	2.066M
2441MHz	Pass	500k	1.298M	2.061M
2480MHz	Pass	500k	1.303M	2.066M
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	500k	705k	1.074M
2441MHz	Pass	500k	677.5k	1.079M
2480MHz	Pass	500k	695k	1.087M

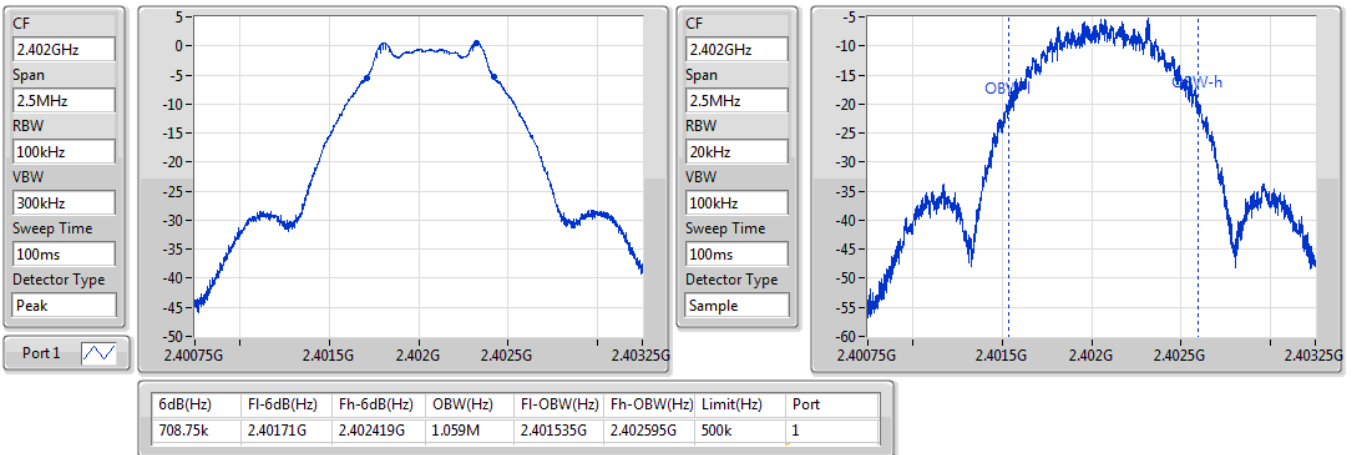
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

BT-LE(1Mbps)

2402MHz

EBW

19/09/2019

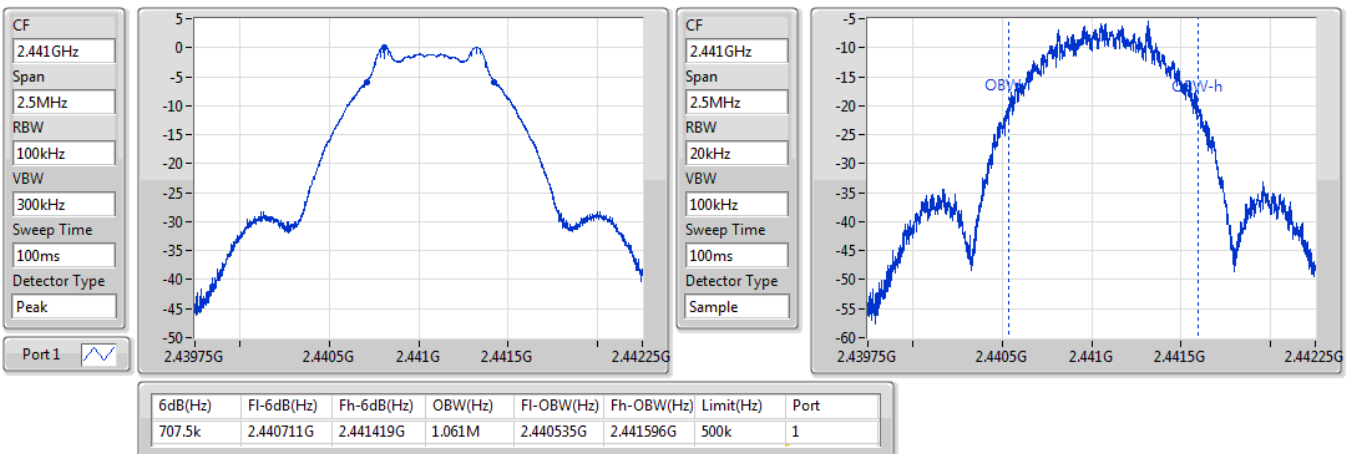


BT-LE(1Mbps)

2441MHz

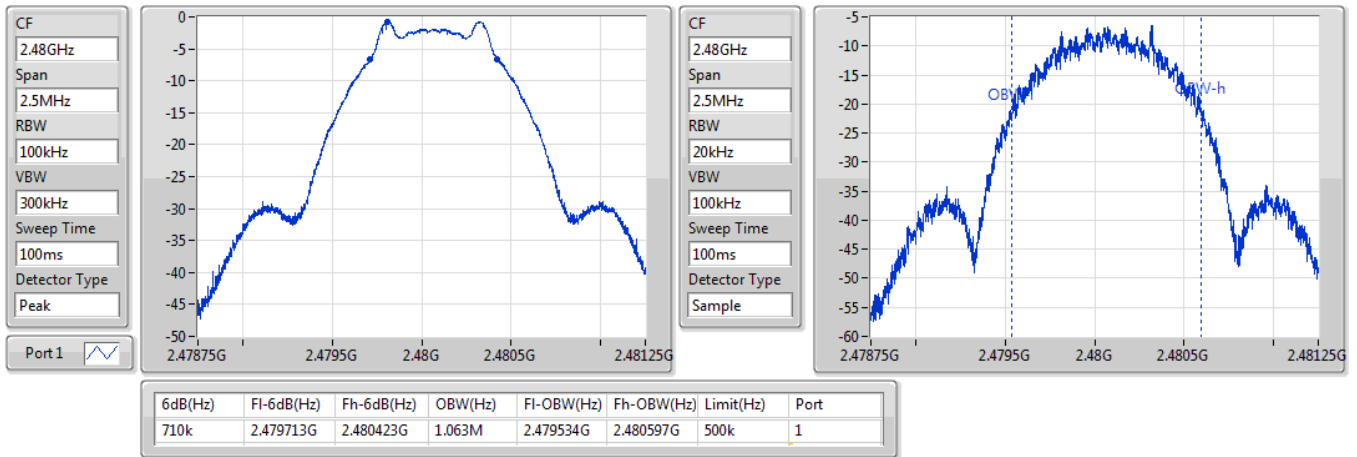
EBW

19/09/2019

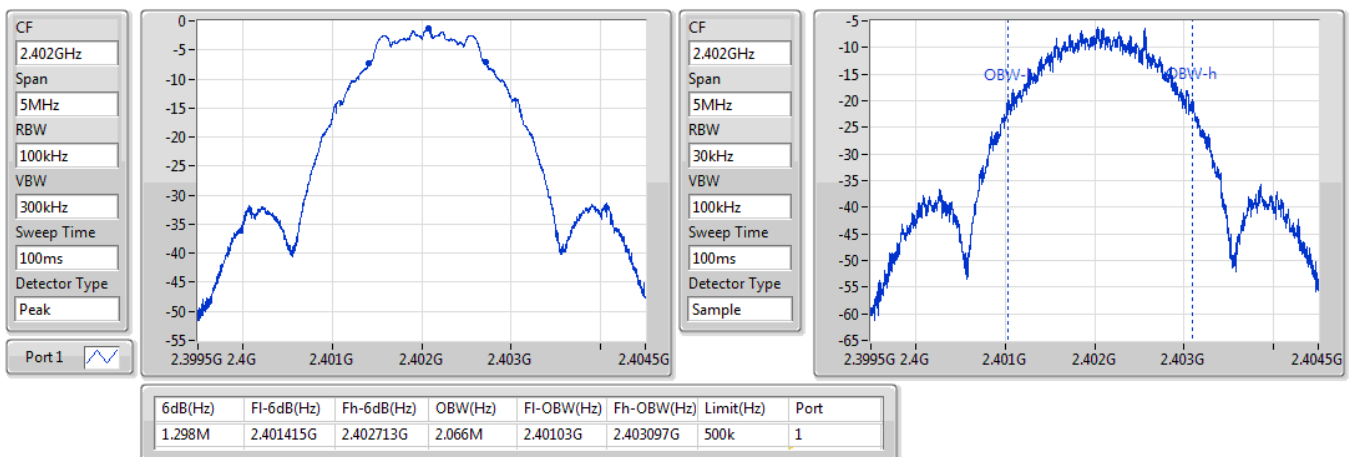


BT-LE(1Mbps)
EBW
2480MHz

19/09/2019

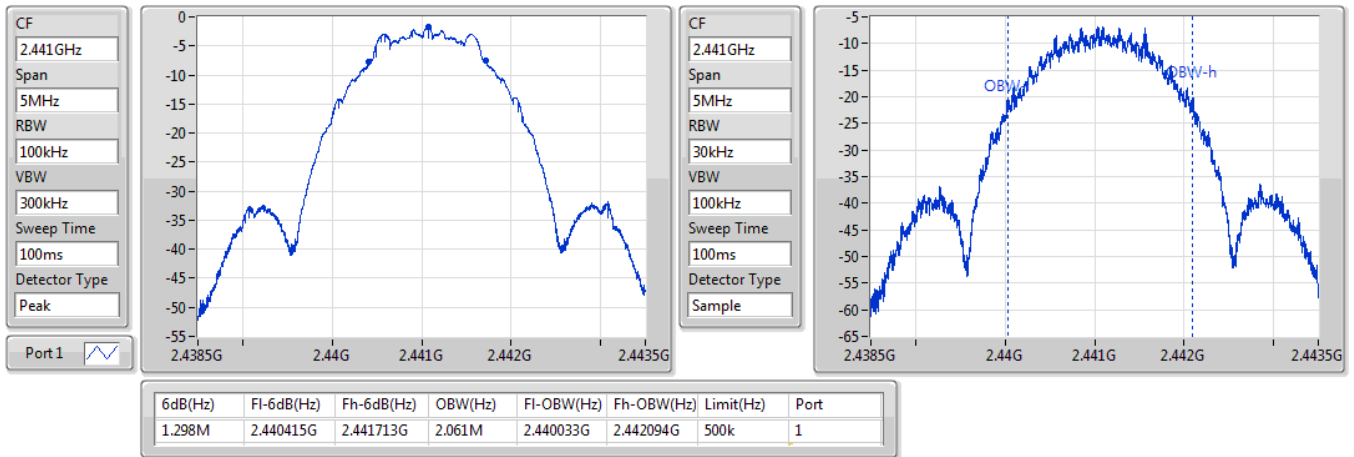

BT-LE(2Mbps)
EBW
2402MHz

19/09/2019

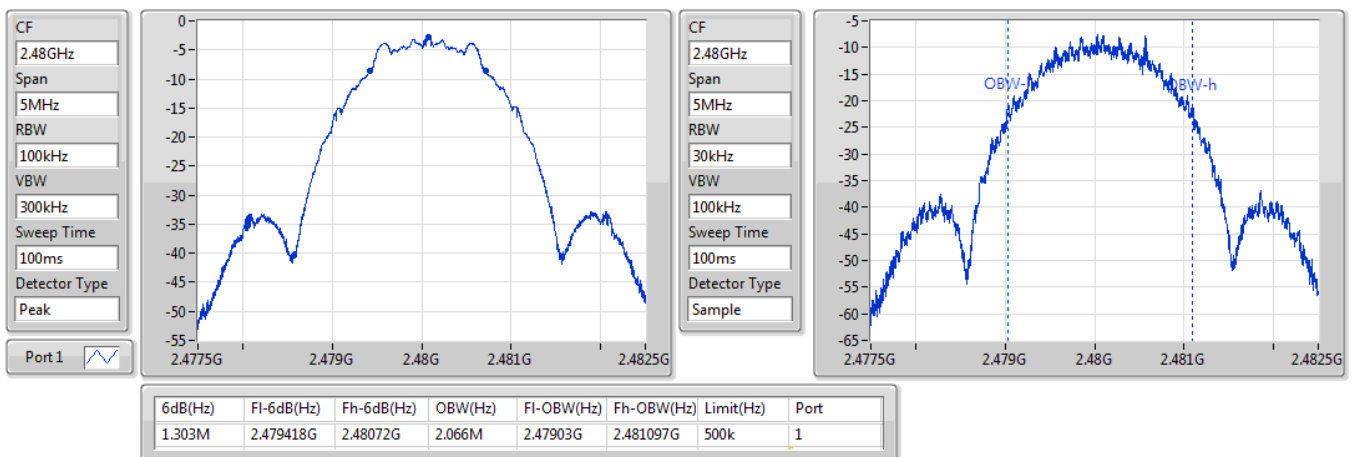


BT-LE(2Mbps)
EBW
2441MHz

19/09/2019

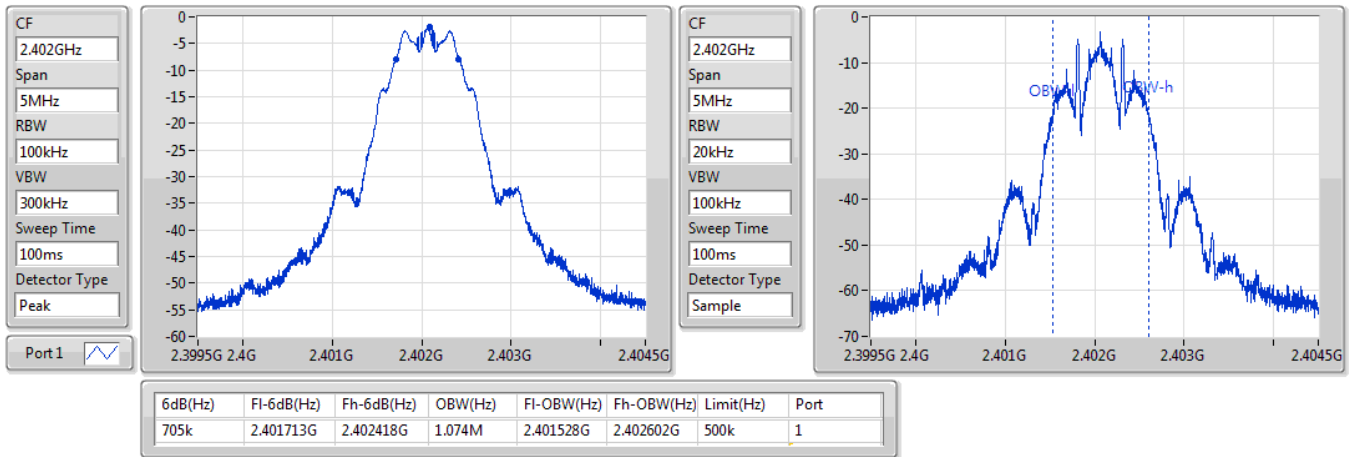

BT-LE(2Mbps)
EBW
2480MHz

19/09/2019

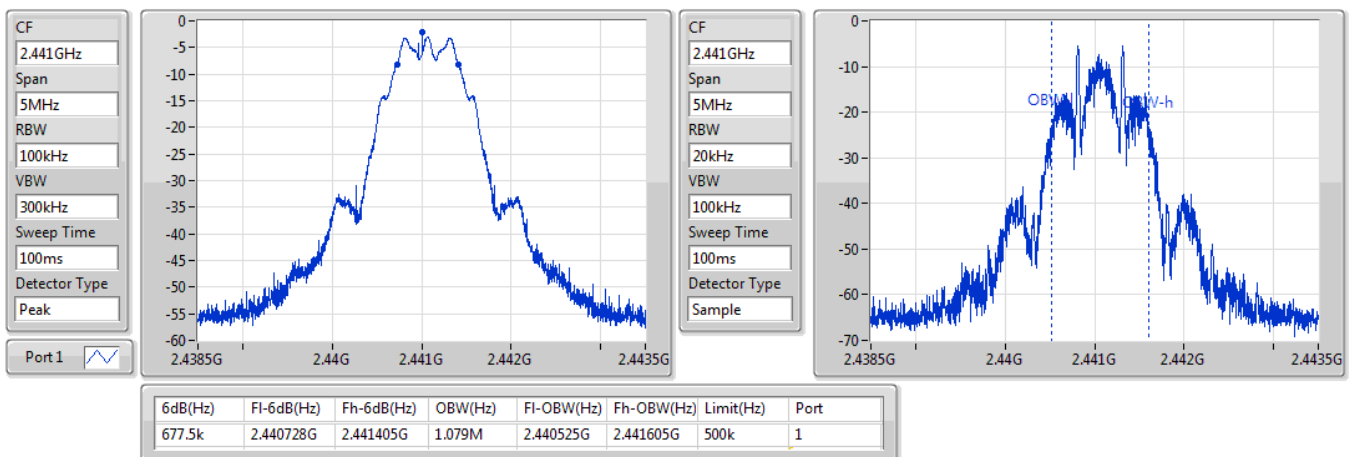


BT-LE(125kbps)
EBW
2402MHz

19/09/2019


BT-LE(125kbps)
EBW
2441MHz

19/09/2019

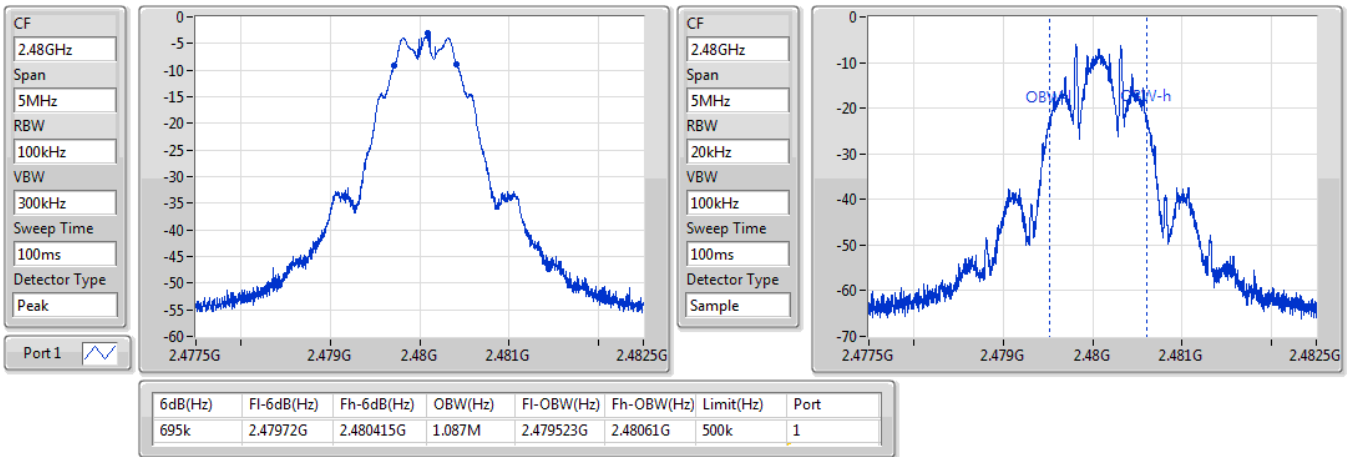


BT-LE(125kbps)

2480MHz

EBW

19/09/2019





MAXIMUM CONDUCTED OUTPUT POWER

Appendix C

Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-LE(1Mbps)	2.68	0.00185
BT-LE(2Mbps)	2.76	0.00189
BT-LE(125kbps)	2.73	0.00187

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-LE(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	3.30	2.68	30.00
2441MHz_TnomVnom	Pass	3.30	1.71	30.00
2480MHz_TnomVnom	Pass	3.30	1.98	30.00
BT-LE(2Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	3.30	2.76	30.00
2441MHz_TnomVnom	Pass	3.30	1.75	30.00
2480MHz_TnomVnom	Pass	3.30	2.20	30.00
BT-LE(125kbps)	-	-	-	-
2402MHz_TnomVnom	Pass	3.30	2.73	30.00
2441MHz_TnomVnom	Pass	3.30	1.78	30.00
2480MHz_TnomVnom	Pass	3.30	2.14	30.00

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



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
BT-LE(1Mbps)	-13.94
BT-LE(2Mbps)	-17.05
BT-LE(125kbps)	-4.95

RBW=3 kHz.

**Result**

Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
BT-LE(1Mbps)	-	-	-	-
2402MHz	Pass	3.30	-13.94	8.00
2441MHz	Pass	3.30	-14.40	8.00
2480MHz	Pass	3.30	-15.88	8.00
BT-LE(2Mbps)	-	-	-	-
2402MHz	Pass	3.30	-17.05	8.00
2441MHz	Pass	3.30	-17.57	8.00
2480MHz	Pass	3.30	-18.65	8.00
BT-LE(125kbps)	-	-	-	-
2402MHz	Pass	3.30	-4.95	8.00
2441MHz	Pass	3.30	-5.39	8.00
2480MHz	Pass	3.30	-6.28	8.00

DG = Directional Gain; RBW=3 kHz;

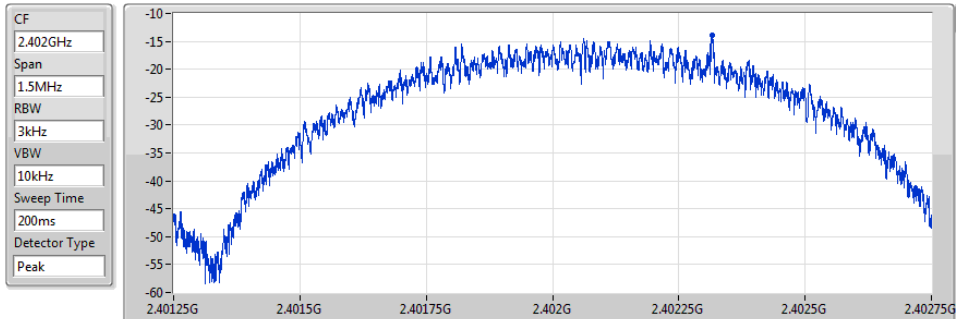
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

BT-LE(1Mbps)

PSD

2402MHz

19/09/2019



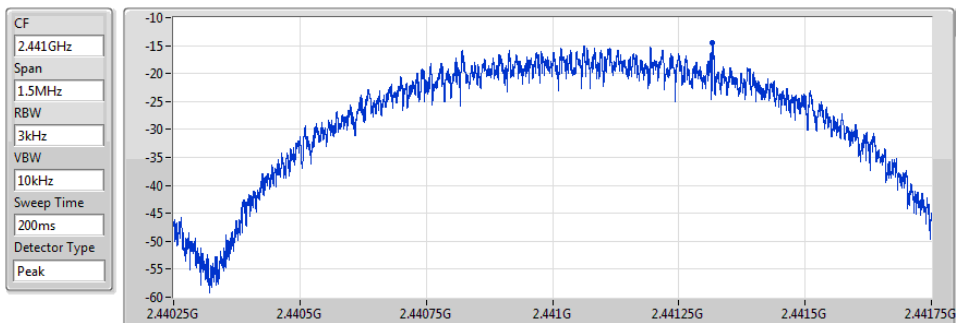
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-13.94	-13.94	-13.94

BT-LE(1Mbps)

PSD

2441MHz

19/09/2019



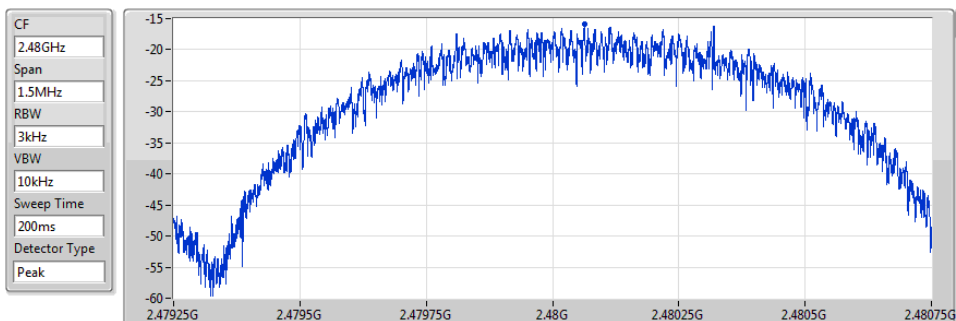
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-14.40	-14.40	-14.40

BT-LE(1Mbps)

PSD

2480MHz

19/09/2019



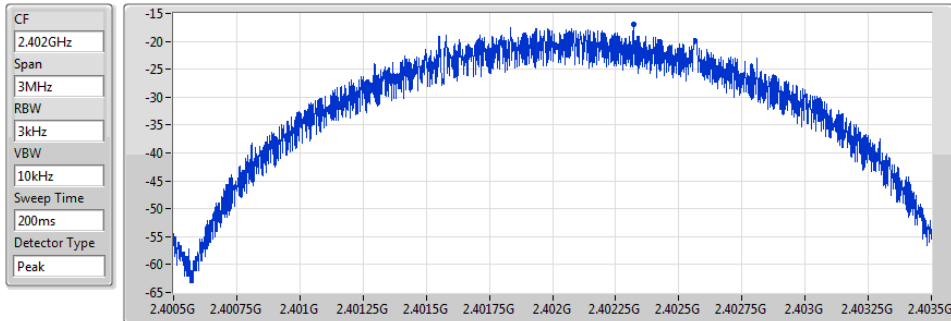
Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-15.88	-15.88	-15.88

BT-LE(2Mbps)

PSD

2402MHz

19/09/2019



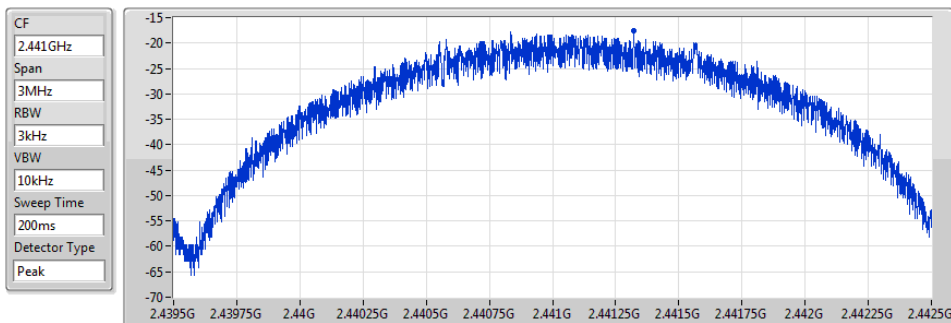
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-17.05	-17.05	-17.05

BT-LE(2Mbps)

PSD

2441MHz

19/09/2019



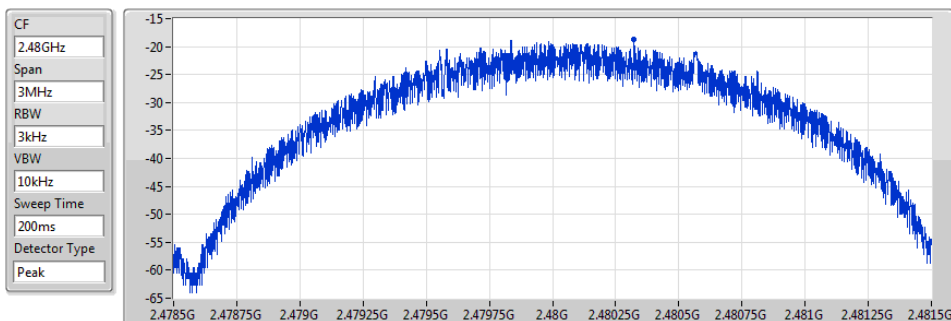
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-17.57	-17.57	-17.57

BT-LE(2Mbps)

PSD

2480MHz

19/09/2019



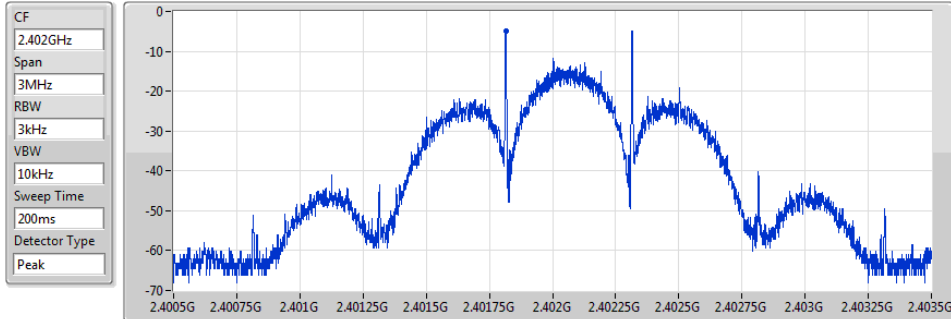
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-18.65	-18.65	-18.65

BT-LE(125kbps)

PSD

2402MHz

19/09/2019

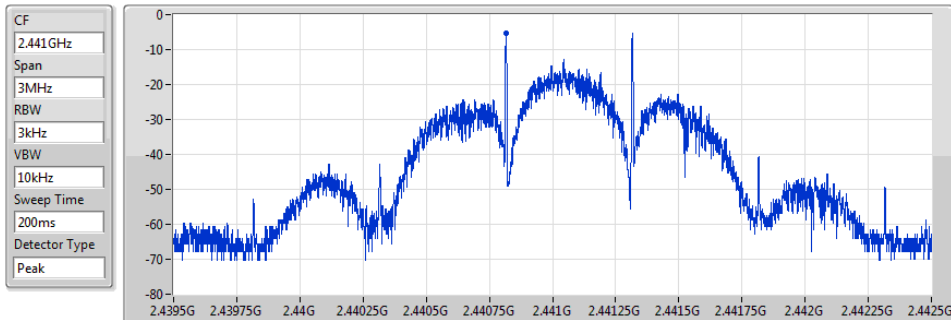


BT-LE(125kbps)

PSD

2441MHz

19/09/2019

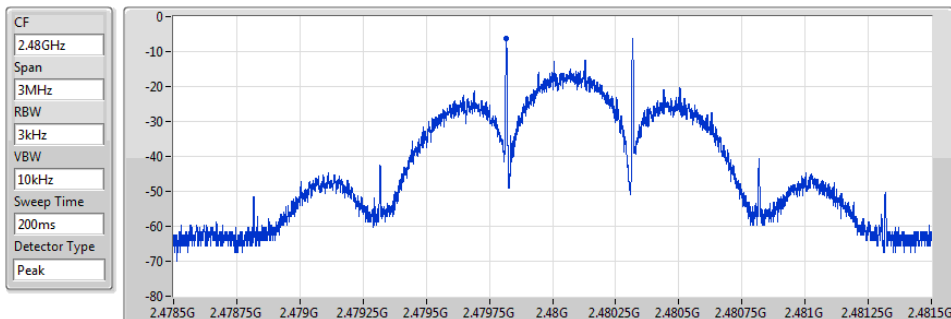


BT-LE(125kbps)

PSD

2480MHz

19/09/2019



**Summary**

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-LE(1Mbps)	Pass	2.4023G	0.54	-29.46	2.30002G	-54.87	2.39992G	-50.45	2.48385G	-53.12	16.53455G	-43.28	1
BT-LE(2Mbps)	Pass	2.40205G	-1.58	-31.58	2.00265G	-55.68	2.4G	-35.75	2.484G	-53.93	16.58314G	-43.28	1
BT-LE(125kbps)	Pass	2.40205G	-2.08	-32.08	760.8M	-55.44	2.39919G	-54.40	2.48393G	-53.64	16.28485G	-43.21	1

Result

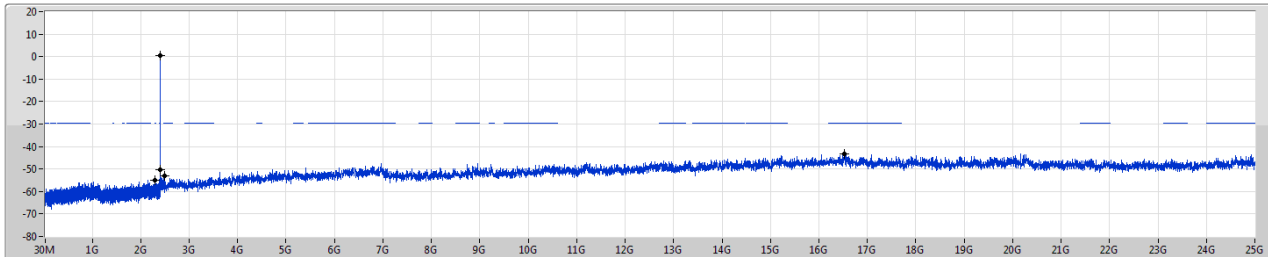
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-LE(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.4023G	0.54	-29.46	2.30002G	-54.87	2.39992G	-50.45	2.48385G	-53.12	16.53455G	-43.28	1
2441MHz	Pass	2.4023G	0.54	-29.46	2.08454G	-55.94	2.39881G	-53.74	2.48468G	-53.87	16.57958G	-43.47	1
2480MHz	Pass	2.4023G	0.54	-29.46	831.57M	-55.85	2.39822G	-54.13	2.48412G	-52.80	15.14428G	-43.32	1
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40205G	-1.58	-31.58	2.00265G	-55.68	2.4G	-35.75	2.484G	-53.93	16.58314G	-43.28	1
2441MHz	Pass	2.40205G	-1.58	-31.58	2.17419G	-55.54	2.39769G	-53.79	2.48506G	-53.49	16.52404G	-42.73	1
2480MHz	Pass	2.40205G	-1.58	-31.58	1.80273G	-55.68	2.39925G	-54.60	2.48387G	-51.50	17.56806G	-43.40	1
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40205G	-2.08	-32.08	2.12391G	-54.92	2.39992G	-50.69	2.48725G	-53.45	24.93809G	-43.30	1
2441MHz	Pass	2.40205G	-2.08	-32.08	760.8M	-55.44	2.39919G	-54.40	2.48393G	-53.64	16.28485G	-43.21	1
2480MHz	Pass	2.40205G	-2.08	-32.08	2.10262G	-55.57	2.39622G	-54.07	2.48604G	-53.50	16.82233G	-43.86	1

BT-LE(1Mbps)

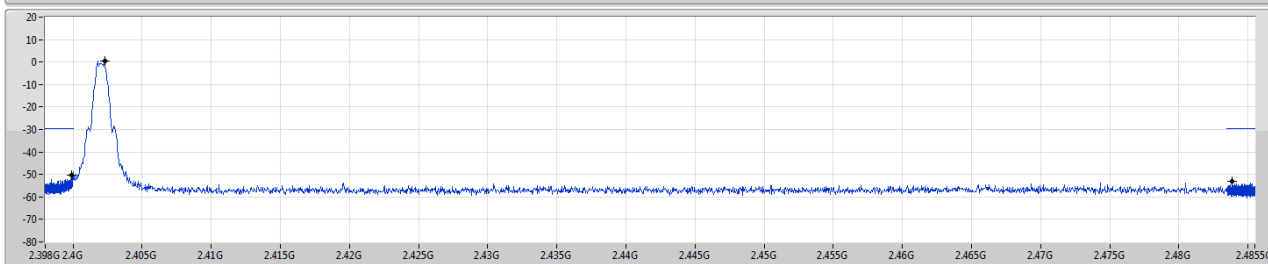
CSE NdB

2402MHz

19/09/2019



Port1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

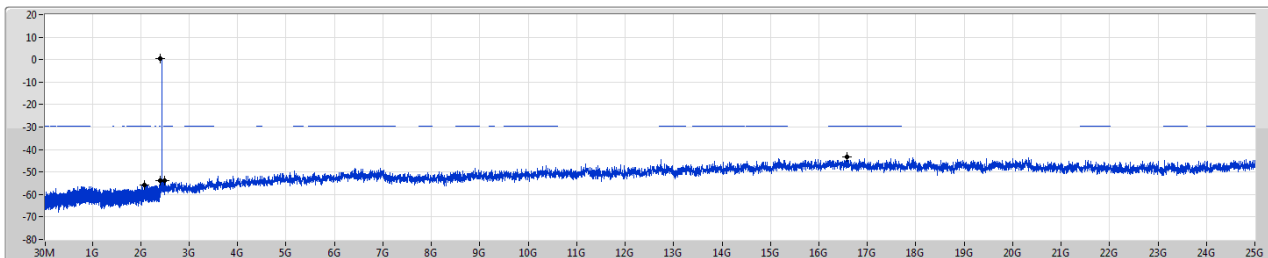
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
24023G	0.54	-29.46	2.30002G	-54.87	2.39992G	-50.45	2.48385G	-53.12	16.53455G	-43.28	1

BT-LE(1Mbps)

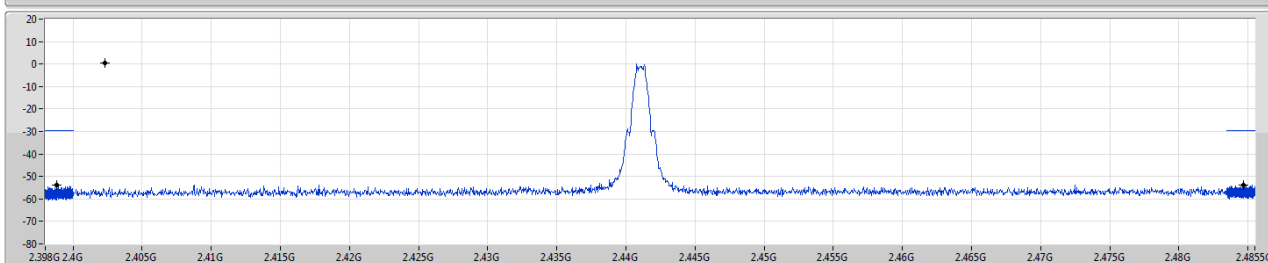
CSE NdB

2441MHz

19/09/2019



Port1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
24023G	0.54	-29.46	2.08454G	-55.94	2.39881G	-53.74	2.48468G	-53.87	16.57958G	-43.47	1

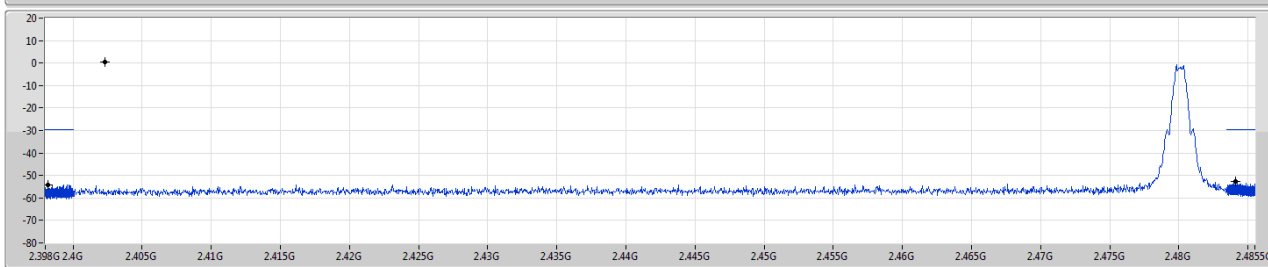
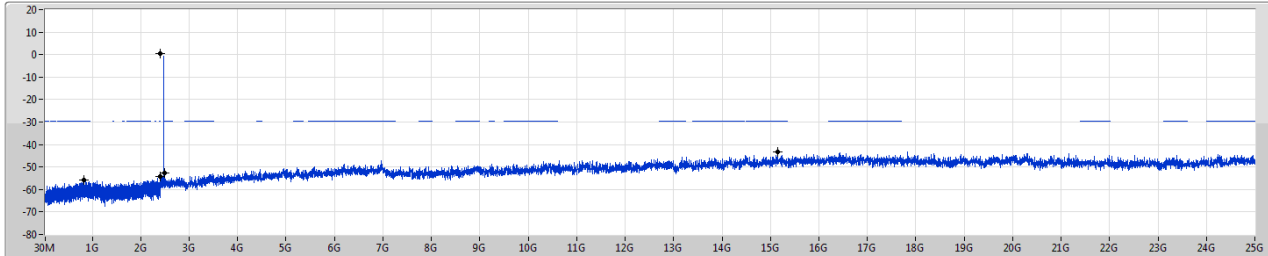
BT-LE(1Mbps)

2480MHz

CSE NdB

19/09/2019

Port1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4023G	0.54	-29.46	831.57M	-55.85	2.39822G	-54.13	2.48412G	-52.80	15.14428G	-43.32	1

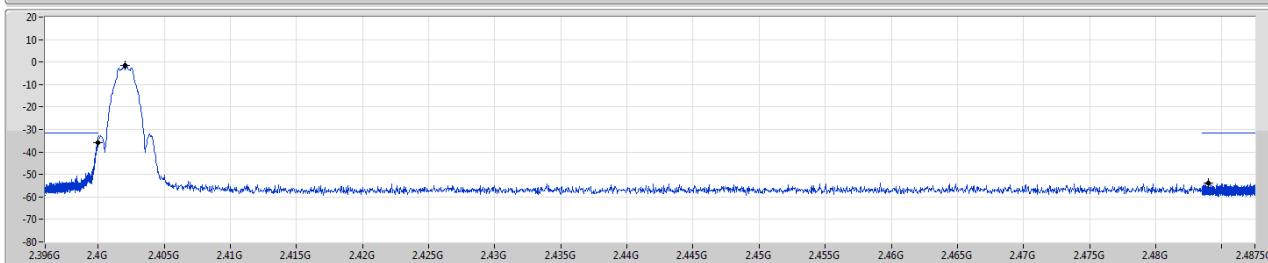
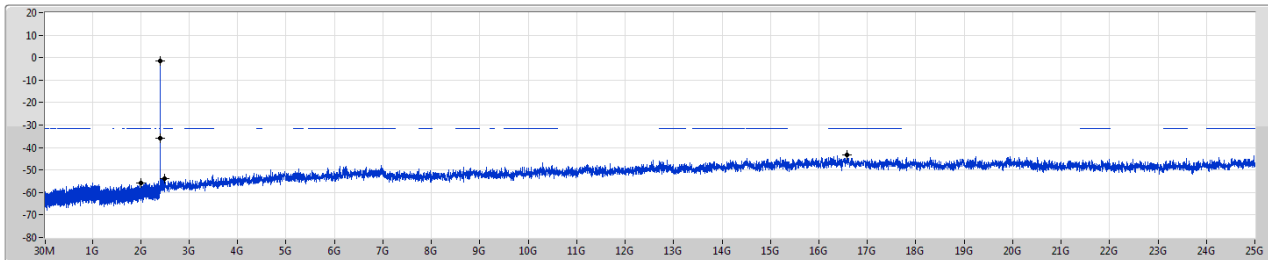
BT-LE(2Mbps)

2402MHz

CSE NdB

19/09/2019

Port1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

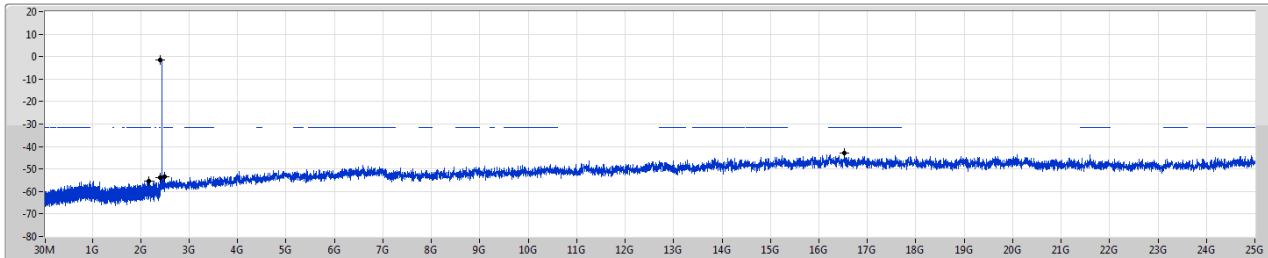
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40205G	-1.58	-31.58	2.00265G	-55.68	2.4G	-35.75	2.484G	-53.93	16.58314G	-43.28	1

BT-LE(2Mbps)

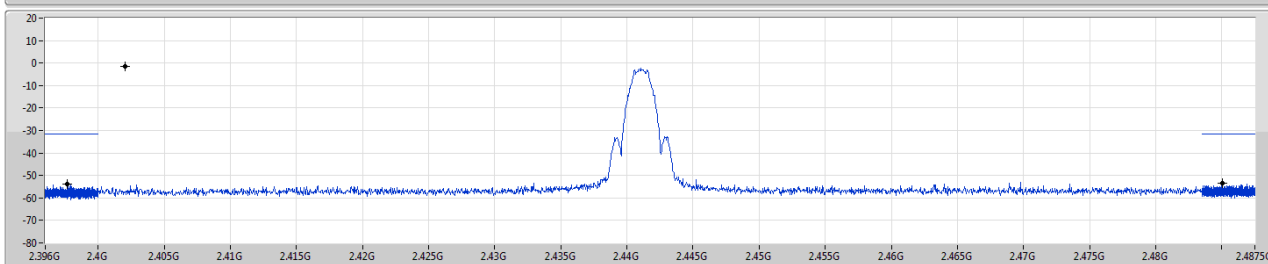
CSE NdB

2441MHz

19/09/2019



Port1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

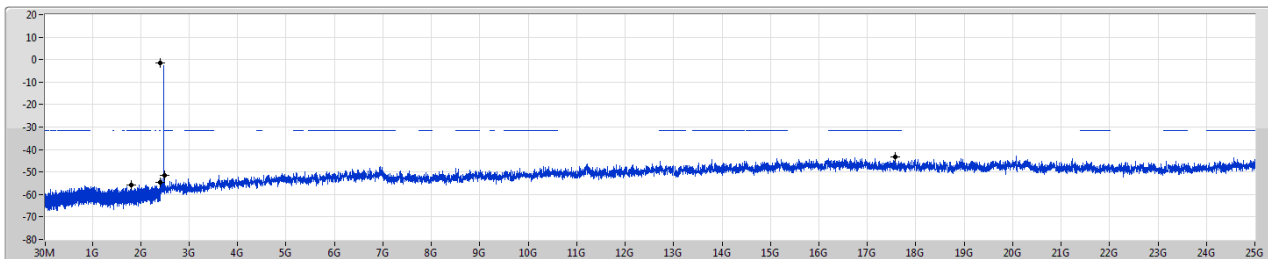
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40205G	-1.58	-31.58	2.17419G	-55.54	2.39769G	-53.79	2.48506G	-53.49	16.52404G	-42.73	1

BT-LE(2Mbps)

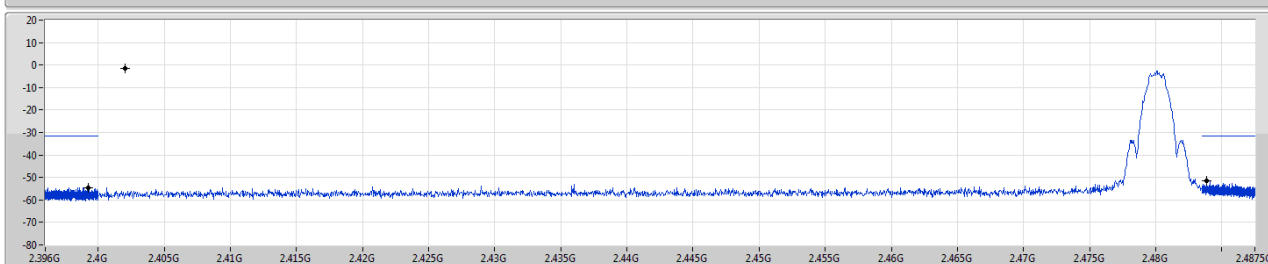
CSE NdB

2480MHz

19/09/2019



Port1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40205G	-1.58	-31.58	1.80273G	-55.68	2.39925G	-54.60	2.48387G	-51.50	17.56806G	-43.40	1

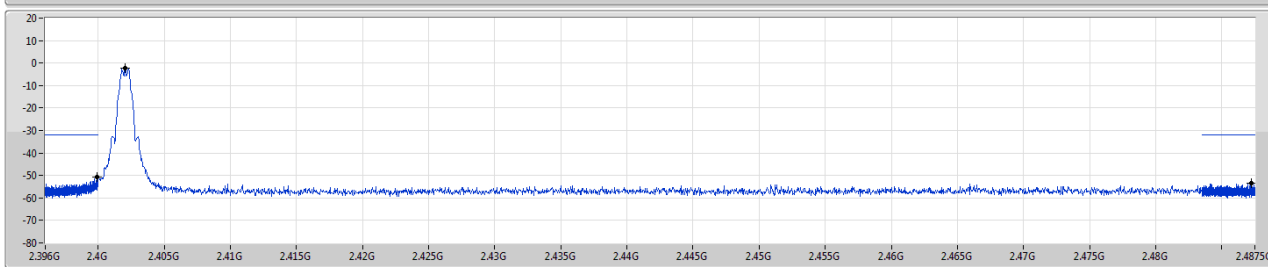
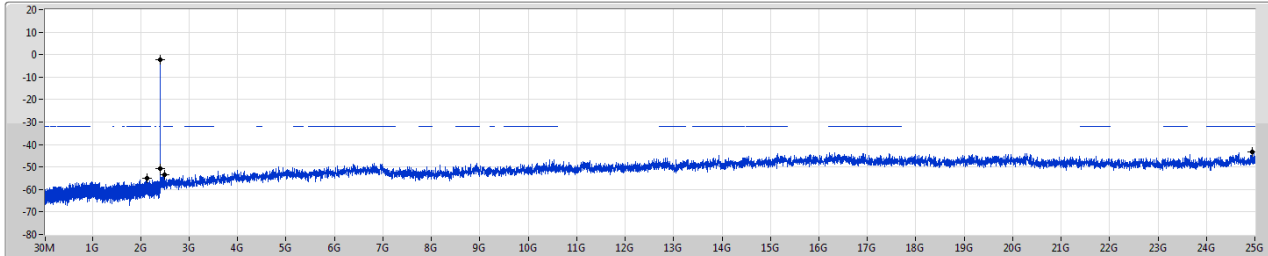
BT-LE(125kbps)

2402MHz

CSE NdB

19/09/2019

Port1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40205G	-2.08	-32.08	2.12391G	-54.92	2.39992G	-50.69	2.48725G	-53.45	2.493809G	-43.30	1

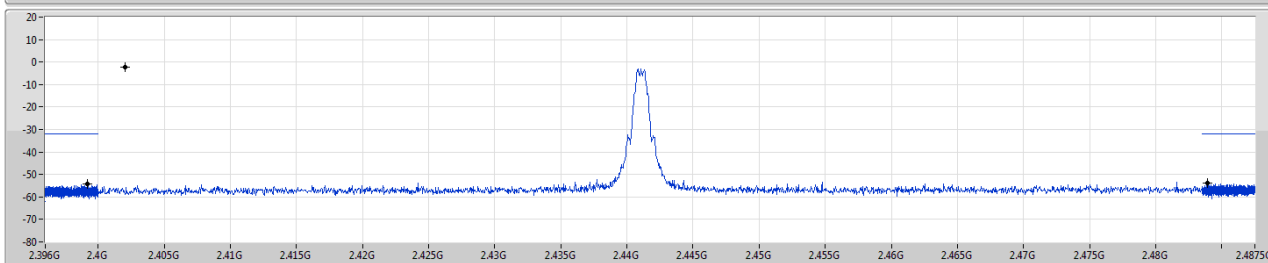
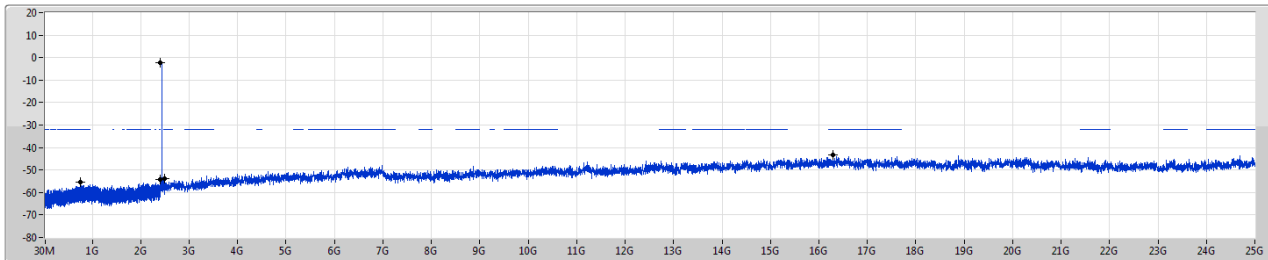
BT-LE(125kbps)

2441MHz

CSE NdB

19/09/2019

Port1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40205G	-2.08	-32.08	760.8M	-55.44	2.39919G	-54.40	2.48399G	-53.64	16.28485G	-43.21	1

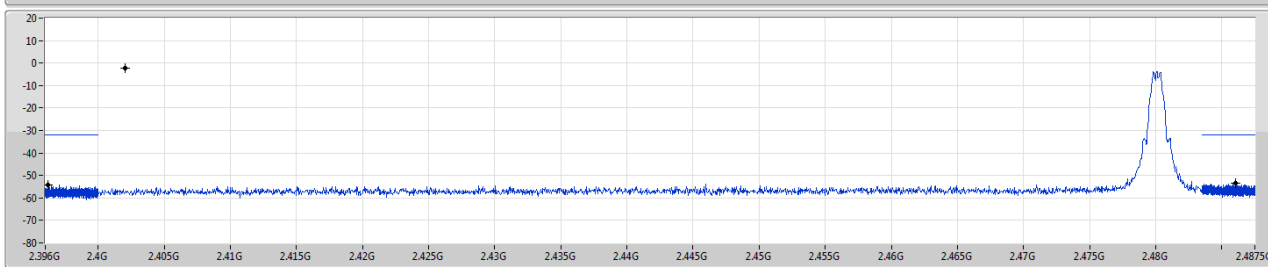
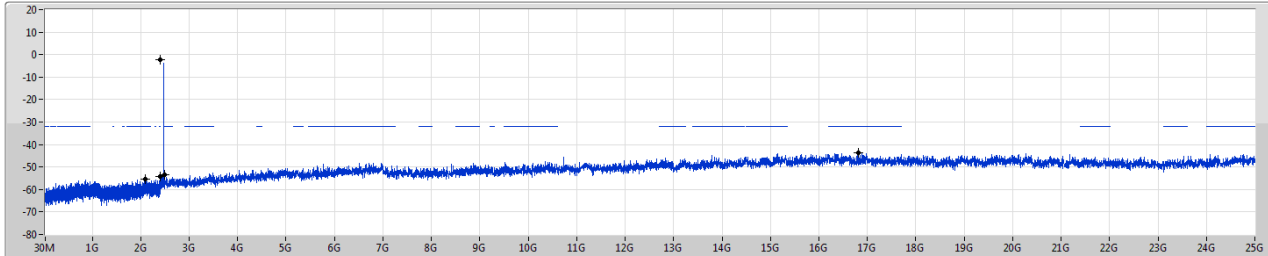
BT-LE(125kbps)

2480MHz

CSE NdB

19/09/2019

Port1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40205G	-2.08	-32.08	2.10262G	-55.57	2.39622G	-54.07	2.48604G	-53.50	16.82233G	-43.86	1



EMISSIONS IN RESTRICTED FREQUENCY BANDS (below 1GHz)

Appendix F.1

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	24.35	40.00	-15.65	3	Vertical	360	1.00	-

Remark :

Page No. : F1 of F4

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

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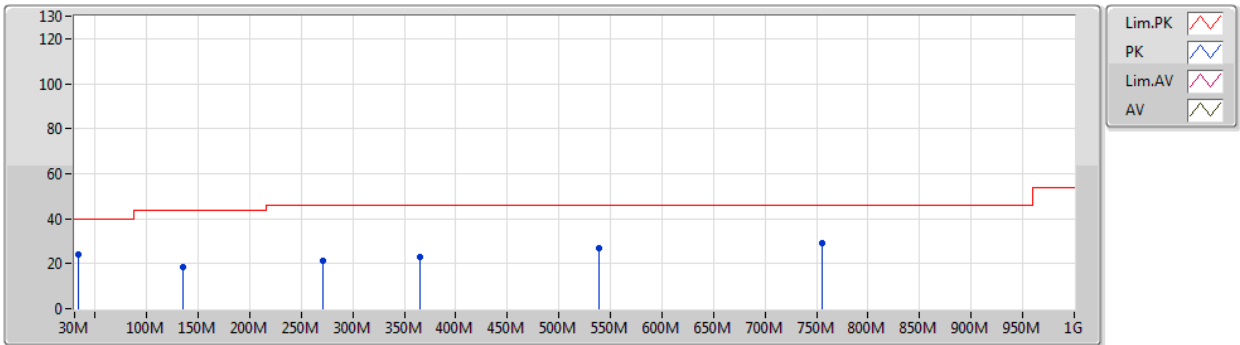
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2441MHz_Adapter	Pass	PK	33.88M	24.35	40.00	-15.65	3	Vertical	360	1.00	-
2441MHz_Adapter	Pass	PK	134.76M	18.33	43.50	-25.17	3	Vertical	360	1.00	-
2441MHz_Adapter	Pass	PK	270.56M	21.18	46.00	-24.82	3	Vertical	360	1.00	-
2441MHz_Adapter	Pass	PK	365.62M	22.91	46.00	-23.09	3	Vertical	360	1.00	-
2441MHz_Adapter	Pass	PK	538.28M	26.75	46.00	-19.25	3	Vertical	360	1.00	-
2441MHz_Adapter	Pass	PK	755.56M	28.91	46.00	-17.09	3	Vertical	360	1.00	-
2441MHz_Adapter	Pass	PK	31.94M	22.56	40.00	-17.44	3	Horizontal	0	1.00	-
2441MHz_Adapter	Pass	PK	128.94M	18.30	43.50	-25.20	3	Horizontal	0	1.00	-
2441MHz_Adapter	Pass	PK	274.44M	21.91	46.00	-24.09	3	Horizontal	0	1.00	-
2441MHz_Adapter	Pass	PK	530.52M	28.02	46.00	-17.98	3	Horizontal	0	1.00	-
2441MHz_Adapter	Pass	PK	683.78M	28.19	46.00	-17.81	3	Horizontal	0	1.00	-
2441MHz_Adapter	Pass	PK	743.92M	28.78	46.00	-17.22	3	Horizontal	0	1.00	-

BT-LE(2Mbps)

2441MHz_Adapter

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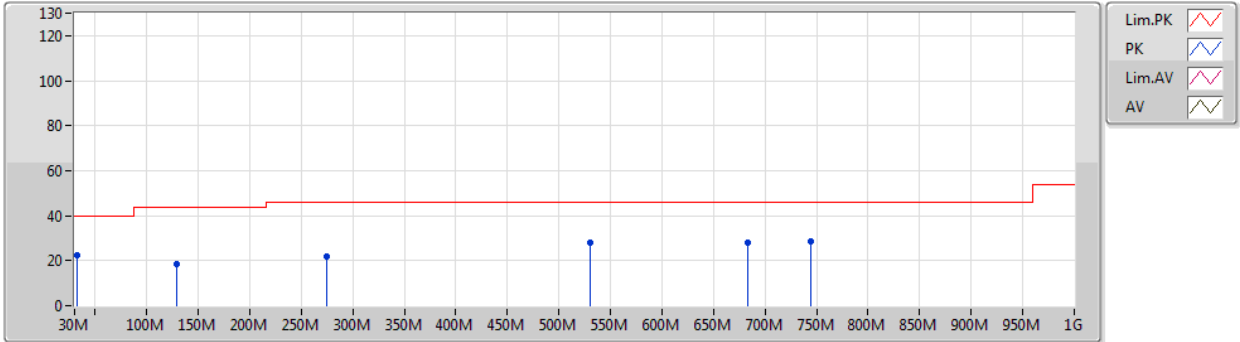


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	33.88M	24.35	40.00	-15.65	-6.46	3	Vertical	360	1.00	-	30.81	20.79	0.43	27.68
PK	134.76M	18.33	43.50	-25.17	-9.38	3	Vertical	360	1.00	-	27.71	16.57	1.74	27.69
PK	270.56M	21.18	46.00	-24.82	-6.07	3	Vertical	360	1.00	-	27.25	18.31	2.80	27.18
PK	365.62M	22.91	46.00	-23.09	-4.57	3	Vertical	360	1.00	-	27.48	19.91	3.13	27.61
PK	538.28M	26.75	46.00	-19.25	-1.61	3	Vertical	360	1.00	-	28.36	23.45	3.52	28.58
PK	755.56M	28.91	46.00	-17.09	0.77	3	Vertical	360	1.00	-	28.14	24.96	4.13	28.32

BT-LE(2Mbps)

2441MHz_Adapter

15/09/2019



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	31.94M	22.56	40.00	-17.44	-5.43	3	Horizontal	0	1.00	-	27.99	21.90	0.36	27.69
PK	128.94M	18.30	43.50	-25.20	-9.04	3	Horizontal	0	1.00	-	27.34	16.96	1.70	27.70
PK	274.44M	21.91	46.00	-24.09	-6.17	3	Horizontal	0	1.00	-	28.08	18.17	2.84	27.18
PK	530.52M	28.02	46.00	-17.98	-1.98	3	Horizontal	0	1.00	-	30.00	23.09	3.48	28.55
PK	683.78M	28.19	46.00	-17.81	-0.38	3	Horizontal	0	1.00	-	28.57	24.08	3.97	28.43
PK	743.92M	28.78	46.00	-17.22	0.62	3	Horizontal	0	1.00	-	28.16	24.86	4.11	28.35



EMISSIONS IN RESTRICTED FREQUENCY BANDS (above 1GHz)

Appendix F.2

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	47.28	54.00	-6.72	3	Horizontal	179	2.89	-
BT-LE(2Mbps)	Pass	AV	2.4835G	49.22	54.00	-4.78	3	Horizontal	180	2.89	-
BT-LE(125kbps)	Pass	AV	2.4835G	47.36	54.00	-6.64	3	Horizontal	178	2.88	-

Remark :

Page No. : F1 of F41

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

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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_TX	Pass	AV	2.3702G	44.29	54.00	-9.71	3	Vertical	292	2.70	-
2402MHz_TX	Pass	AV	2.402G	98.26	Inf	-Inf	3	Vertical	292	2.70	-
2402MHz_TX	Pass	PK	2.3686G	56.10	74.00	-17.90	3	Vertical	292	2.70	-
2402MHz_TX	Pass	PK	2.4018G	100.00	Inf	-Inf	3	Vertical	292	2.70	-
2402MHz_TX	Pass	AV	2.37G	44.40	54.00	-9.60	3	Horizontal	178	3.00	-
2402MHz_TX	Pass	AV	2.402G	100.59	Inf	-Inf	3	Horizontal	178	3.00	-
2402MHz_TX	Pass	PK	2.374G	56.96	74.00	-17.04	3	Horizontal	178	3.00	-
2402MHz_TX	Pass	PK	2.4024G	102.26	Inf	-Inf	3	Horizontal	178	3.00	-
2402MHz_TX	Pass	AV	4.80387G	29.38	54.00	-24.62	3	Vertical	284	1.86	-
2402MHz_TX	Pass	PK	4.80455G	43.04	74.00	-30.96	3	Vertical	284	1.86	-
2402MHz_TX	Pass	AV	4.80448G	29.71	54.00	-24.29	3	Horizontal	346	1.37	-
2402MHz_TX	Pass	PK	4.80378G	43.71	74.00	-30.29	3	Horizontal	346	1.37	-
2441MHz_TX	Pass	AV	2.377G	44.36	54.00	-9.64	3	Vertical	293	2.67	-
2441MHz_TX	Pass	AV	2.441G	95.85	Inf	-Inf	3	Vertical	293	2.67	-
2441MHz_TX	Pass	AV	2.4986G	44.45	54.00	-9.55	3	Vertical	293	2.67	-
2441MHz_TX	Pass	PK	2.387G	55.50	74.00	-18.50	3	Vertical	293	2.67	-
2441MHz_TX	Pass	PK	2.441G	97.54	Inf	-Inf	3	Vertical	293	2.67	-
2441MHz_TX	Pass	PK	2.497G	56.49	74.00	-17.51	3	Vertical	293	2.67	-
2441MHz_TX	Pass	AV	2.377G	44.36	54.00	-9.64	3	Horizontal	180	2.99	-
2441MHz_TX	Pass	AV	2.441G	99.73	Inf	-Inf	3	Horizontal	180	2.99	-
2441MHz_TX	Pass	AV	2.499G	44.47	54.00	-9.53	3	Horizontal	180	2.99	-
2441MHz_TX	Pass	PK	2.3754G	55.97	74.00	-18.03	3	Horizontal	180	2.99	-
2441MHz_TX	Pass	PK	2.441G	101.37	Inf	-Inf	3	Horizontal	180	2.99	-
2441MHz_TX	Pass	PK	2.4858G	56.13	74.00	-17.87	3	Horizontal	180	2.99	-
2441MHz_TX	Pass	AV	4.88195G	29.03	54.00	-24.97	3	Vertical	281	1.50	-
2441MHz_TX	Pass	AV	7.32392G	37.18	54.00	-16.82	3	Vertical	23	2.79	-
2441MHz_TX	Pass	PK	4.87951G	42.83	74.00	-31.17	3	Vertical	281	1.50	-
2441MHz_TX	Pass	PK	7.32258G	49.97	74.00	-24.03	3	Vertical	23	2.79	-
2441MHz_TX	Pass	AV	4.88184G	30.21	54.00	-23.79	3	Horizontal	348	2.31	-
2441MHz_TX	Pass	AV	7.32386G	39.50	54.00	-14.50	3	Horizontal	85	1.00	-
2441MHz_TX	Pass	PK	4.88139G	43.79	74.00	-30.21	3	Horizontal	348	2.31	-
2441MHz_TX	Pass	PK	7.32419G	51.35	74.00	-22.65	3	Horizontal	85	1.00	-
2480MHz_TX	Pass	AV	2.48G	92.33	Inf	-Inf	3	Vertical	250	2.87	-
2480MHz_TX	Pass	AV	2.4835G	45.42	54.00	-8.58	3	Vertical	250	2.87	-
2480MHz_TX	Pass	PK	2.4798G	94.03	Inf	-Inf	3	Vertical	250	2.87	-
2480MHz_TX	Pass	PK	2.4928G	56.44	74.00	-17.56	3	Vertical	250	2.87	-
2480MHz_TX	Pass	AV	2.48G	97.57	Inf	-Inf	3	Horizontal	179	2.89	-
2480MHz_TX	Pass	AV	2.4835G	47.28	54.00	-6.72	3	Horizontal	179	2.89	-
2480MHz_TX	Pass	PK	2.4798G	99.26	Inf	-Inf	3	Horizontal	179	2.89	-
2480MHz_TX	Pass	PK	2.4835G	57.44	74.00	-16.56	3	Horizontal	179	2.89	-
2480MHz_TX	Pass	AV	4.96049G	29.41	54.00	-24.59	3	Vertical	292	1.06	-
2480MHz_TX	Pass	AV	7.44088G	38.64	54.00	-15.36	3	Vertical	25	2.06	-
2480MHz_TX	Pass	PK	4.96037G	43.12	74.00	-30.88	3	Vertical	292	1.06	-
2480MHz_TX	Pass	PK	7.43937G	51.55	74.00	-22.45	3	Vertical	25	2.06	-
2480MHz_TX	Pass	AV	4.96044G	30.21	54.00	-23.79	3	Horizontal	352	2.27	-
2480MHz_TX	Pass	AV	7.44089G	39.81	54.00	-14.19	3	Horizontal	90	1.00	-
2480MHz_TX	Pass	PK	4.95961G	43.41	74.00	-30.59	3	Horizontal	352	2.27	-

Remark :

Page No. : F2 of F41

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

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EMISSIONS IN RESTRICTED FREQUENCY BANDS (above 1GHz)

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2480MHz_TX	Pass	PK	7.43995G	52.78	74.00	-21.22	3	Horizontal	90	1.00	-
BT-LE(2Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TX	Pass	AV	2.3702G	44.22	54.00	-9.78	3	Vertical	275	2.48	-
2402MHz_TX	Pass	AV	2.402G	95.13	Inf	-Inf	3	Vertical	275	2.48	-
2402MHz_TX	Pass	PK	2.3704G	56.35	74.00	-17.65	3	Vertical	275	2.48	-
2402MHz_TX	Pass	PK	2.4016G	98.67	Inf	-Inf	3	Vertical	275	2.48	-
2402MHz_TX	Pass	AV	2.37G	44.24	54.00	-9.76	3	Horizontal	179	3.00	-
2402MHz_TX	Pass	AV	2.402G	98.73	Inf	-Inf	3	Horizontal	179	3.00	-
2402MHz_TX	Pass	PK	2.3854G	56.65	74.00	-17.35	3	Horizontal	179	3.00	-
2402MHz_TX	Pass	PK	2.4026G	102.31	Inf	-Inf	3	Horizontal	179	3.00	-
2402MHz_TX	Pass	AV	4.8051G	29.13	54.00	-24.87	3	Vertical	301	2.37	-
2402MHz_TX	Pass	PK	4.80565G	43.62	74.00	-30.38	3	Vertical	301	2.37	-
2402MHz_TX	Pass	AV	4.80515G	29.19	54.00	-24.81	3	Horizontal	342	1.45	-
2402MHz_TX	Pass	PK	4.80402G	43.32	74.00	-30.68	3	Horizontal	342	1.45	-
2441MHz_TX	Pass	AV	2.377G	44.22	54.00	-9.78	3	Vertical	291	2.66	-
2441MHz_TX	Pass	AV	2.441G	94.02	Inf	-Inf	3	Vertical	291	2.66	-
2441MHz_TX	Pass	AV	2.4986G	44.48	54.00	-9.52	3	Vertical	291	2.66	-
2441MHz_TX	Pass	PK	2.3674G	55.78	74.00	-18.22	3	Vertical	291	2.66	-
2441MHz_TX	Pass	PK	2.4406G	97.58	Inf	-Inf	3	Vertical	291	2.66	-
2441MHz_TX	Pass	PK	2.4974G	55.88	74.00	-18.12	3	Vertical	291	2.66	-
2441MHz_TX	Pass	AV	2.377G	44.28	54.00	-9.72	3	Horizontal	179	3.00	-
2441MHz_TX	Pass	AV	2.441G	97.89	Inf	-Inf	3	Horizontal	179	3.00	-
2441MHz_TX	Pass	AV	2.4986G	44.48	54.00	-9.52	3	Horizontal	179	3.00	-
2441MHz_TX	Pass	PK	2.355G	55.99	74.00	-18.01	3	Horizontal	179	3.00	-
2441MHz_TX	Pass	PK	2.4418G	101.40	Inf	-Inf	3	Horizontal	179	3.00	-
2441MHz_TX	Pass	PK	2.4835G	56.12	74.00	-17.88	3	Horizontal	179	3.00	-
2441MHz_TX	Pass	AV	4.88311G	29.15	54.00	-24.85	3	Vertical	288	1.50	-
2441MHz_TX	Pass	AV	7.32196G	36.16	54.00	-17.84	3	Vertical	10	1.98	-
2441MHz_TX	Pass	PK	4.88242G	43.08	74.00	-30.92	3	Vertical	288	1.50	-
2441MHz_TX	Pass	PK	7.32197G	50.42	74.00	-23.58	3	Vertical	10	1.98	-
2441MHz_TX	Pass	AV	4.88309G	29.88	54.00	-24.12	3	Horizontal	326	1.00	-
2441MHz_TX	Pass	AV	7.32203G	38.74	54.00	-15.26	3	Horizontal	89	1.08	-
2441MHz_TX	Pass	PK	4.88287G	43.49	74.00	-30.51	3	Horizontal	326	1.00	-
2441MHz_TX	Pass	PK	7.32184G	50.97	74.00	-23.03	3	Horizontal	89	1.08	-
2480MHz_TX	Pass	AV	2.48G	91.32	Inf	-Inf	3	Vertical	294	2.54	-
2480MHz_TX	Pass	AV	2.4835G	46.86	54.00	-7.14	3	Vertical	294	2.54	-
2480MHz_TX	Pass	PK	2.4796G	94.88	Inf	-Inf	3	Vertical	294	2.54	-
2480MHz_TX	Pass	PK	2.4835G	57.11	74.00	-16.89	3	Vertical	294	2.54	-
2480MHz_TX	Pass	AV	2.48G	95.72	Inf	-Inf	3	Horizontal	180	2.89	-
2480MHz_TX	Pass	AV	2.4835G	49.22	54.00	-4.78	3	Horizontal	180	2.89	-
2480MHz_TX	Pass	PK	2.4796G	99.30	Inf	-Inf	3	Horizontal	180	2.89	-
2480MHz_TX	Pass	PK	2.4835G	59.13	74.00	-14.87	3	Horizontal	180	2.89	-
2480MHz_TX	Pass	AV	4.96109G	29.17	54.00	-24.83	3	Vertical	208	1.22	-
2480MHz_TX	Pass	AV	7.44147G	38.12	54.00	-15.88	3	Vertical	23	2.07	-
2480MHz_TX	Pass	PK	4.96108G	43.41	74.00	-30.59	3	Vertical	208	1.22	-
2480MHz_TX	Pass	PK	7.43878G	51.70	74.00	-22.30	3	Vertical	23	2.07	-
2480MHz_TX	Pass	AV	4.96116G	29.86	54.00	-24.14	3	Horizontal	352	2.36	-
2480MHz_TX	Pass	AV	7.43905G	39.20	54.00	-14.80	3	Horizontal	91	1.00	-
2480MHz_TX	Pass	PK	4.96123G	43.78	74.00	-30.22	3	Horizontal	352	2.36	-

Remark :

Page No. : F3 of F41

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

990210



EMISSIONS IN RESTRICTED FREQUENCY BANDS (above 1GHz)

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2480MHz_TX	Pass	PK	7.4384G	51.93	74.00	-22.07	3	Horizontal	91	1.00	-
BT-LE(125kbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TX	Pass	AV	2.3702G	44.22	54.00	-9.78	3	Vertical	275	2.48	-
2402MHz_TX	Pass	AV	2.402G	96.82	Inf	-Inf	3	Vertical	275	2.48	-
2402MHz_TX	Pass	PK	2.3718G	56.54	74.00	-17.46	3	Vertical	275	2.48	-
2402MHz_TX	Pass	PK	2.4018G	98.72	Inf	-Inf	3	Vertical	275	2.48	-
2402MHz_TX	Pass	AV	2.37G	44.39	54.00	-9.61	3	Horizontal	179	3.00	-
2402MHz_TX	Pass	AV	2.402G	100.42	Inf	-Inf	3	Horizontal	179	3.00	-
2402MHz_TX	Pass	PK	2.367G	56.71	74.00	-17.29	3	Horizontal	179	3.00	-
2402MHz_TX	Pass	PK	2.4024G	102.28	Inf	-Inf	3	Horizontal	179	3.00	-
2402MHz_TX	Pass	AV	4.8046G	29.78	54.00	-24.22	3	Vertical	284	2.06	-
2402MHz_TX	Pass	PK	4.80469G	43.52	74.00	-30.48	3	Vertical	284	2.06	-
2402MHz_TX	Pass	AV	4.80456G	29.73	54.00	-24.27	3	Horizontal	343	1.45	-
2402MHz_TX	Pass	PK	4.80468G	43.37	74.00	-30.63	3	Horizontal	343	1.45	-
2441MHz_TX	Pass	AV	2.377G	44.29	54.00	-9.71	3	Vertical	290	2.66	-
2441MHz_TX	Pass	AV	2.441G	95.68	Inf	-Inf	3	Vertical	290	2.66	-
2441MHz_TX	Pass	AV	2.4998G	44.47	54.00	-9.53	3	Vertical	290	2.66	-
2441MHz_TX	Pass	PK	2.389G	57.63	74.00	-16.37	3	Vertical	290	2.66	-
2441MHz_TX	Pass	PK	2.441G	97.54	Inf	-Inf	3	Vertical	290	2.66	-
2441MHz_TX	Pass	PK	2.491G	56.17	74.00	-17.83	3	Vertical	290	2.66	-
2441MHz_TX	Pass	AV	2.377G	44.33	54.00	-9.67	3	Horizontal	179	3.00	-
2441MHz_TX	Pass	AV	2.441G	99.63	Inf	-Inf	3	Horizontal	179	3.00	-
2441MHz_TX	Pass	AV	2.4998G	44.48	54.00	-9.52	3	Horizontal	179	3.00	-
2441MHz_TX	Pass	PK	2.3746G	56.26	74.00	-17.74	3	Horizontal	179	3.00	-
2441MHz_TX	Pass	PK	2.441G	101.43	Inf	-Inf	3	Horizontal	179	3.00	-
2441MHz_TX	Pass	PK	2.4986G	56.82	74.00	-17.18	3	Horizontal	179	3.00	-
2441MHz_TX	Pass	AV	4.88174G	29.53	54.00	-24.47	3	Vertical	288	1.50	-
2441MHz_TX	Pass	AV	7.32394G	37.30	54.00	-16.70	3	Vertical	26	2.10	-
2441MHz_TX	Pass	PK	4.88166G	42.98	74.00	-31.02	3	Vertical	288	1.50	-
2441MHz_TX	Pass	PK	7.32247G	50.26	74.00	-23.74	3	Vertical	26	2.10	-
2441MHz_TX	Pass	AV	4.88177G	30.33	54.00	-23.67	3	Horizontal	327	1.11	-
2441MHz_TX	Pass	AV	7.3226G	39.56	54.00	-14.44	3	Horizontal	89	1.01	-
2441MHz_TX	Pass	PK	4.88152G	44.04	74.00	-29.96	3	Horizontal	327	1.11	-
2441MHz_TX	Pass	PK	7.32243G	51.75	74.00	-22.25	3	Horizontal	89	1.01	-
2480MHz_TX	Pass	AV	2.48G	92.01	Inf	-Inf	3	Vertical	246	2.63	-
2480MHz_TX	Pass	AV	2.4835G	45.42	54.00	-8.58	3	Vertical	246	2.63	-
2480MHz_TX	Pass	PK	2.4798G	93.88	Inf	-Inf	3	Vertical	246	2.63	-
2480MHz_TX	Pass	PK	2.4962G	56.20	74.00	-17.80	3	Vertical	246	2.63	-
2480MHz_TX	Pass	AV	2.48G	97.54	Inf	-Inf	3	Horizontal	178	2.88	-
2480MHz_TX	Pass	AV	2.4835G	47.36	54.00	-6.64	3	Horizontal	178	2.88	-
2480MHz_TX	Pass	PK	2.4798G	99.38	Inf	-Inf	3	Horizontal	178	2.88	-
2480MHz_TX	Pass	PK	2.4835G	57.22	74.00	-16.78	3	Horizontal	178	2.88	-
2480MHz_TX	Pass	AV	4.96063G	29.85	54.00	-24.15	3	Vertical	215	2.97	-
2480MHz_TX	Pass	AV	7.43958G	38.93	54.00	-15.07	3	Vertical	19	2.08	-
2480MHz_TX	Pass	PK	4.95984G	43.67	74.00	-30.33	3	Vertical	215	2.97	-
2480MHz_TX	Pass	PK	7.43974G	51.69	74.00	-22.31	3	Vertical	19	2.08	-
2480MHz_TX	Pass	AV	4.95988G	30.15	54.00	-23.85	3	Horizontal	329	1.18	-
2480MHz_TX	Pass	AV	7.43959G	40.36	54.00	-13.64	3	Horizontal	108	1.98	-
2480MHz_TX	Pass	PK	4.96076G	43.66	74.00	-30.34	3	Horizontal	329	1.18	-

Remark :

Page No. : F4 of F41

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

990210



EMISSIONS IN RESTRICTED FREQUENCY BANDS (above 1GHz)

Appendix F.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2480MHz_TX	Pass	PK	7.43953G	52.88	74.00	-21.12	3	Horizontal	108	1.98	-

Remark :

Page No. : F5 of F41

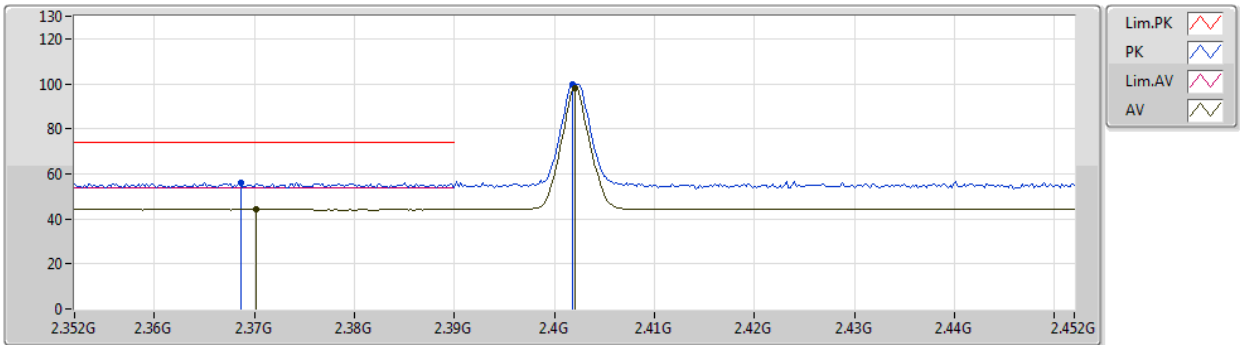
Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

990210

BT-LE(1Mbps)

2402MHz_TX

14/09/2019

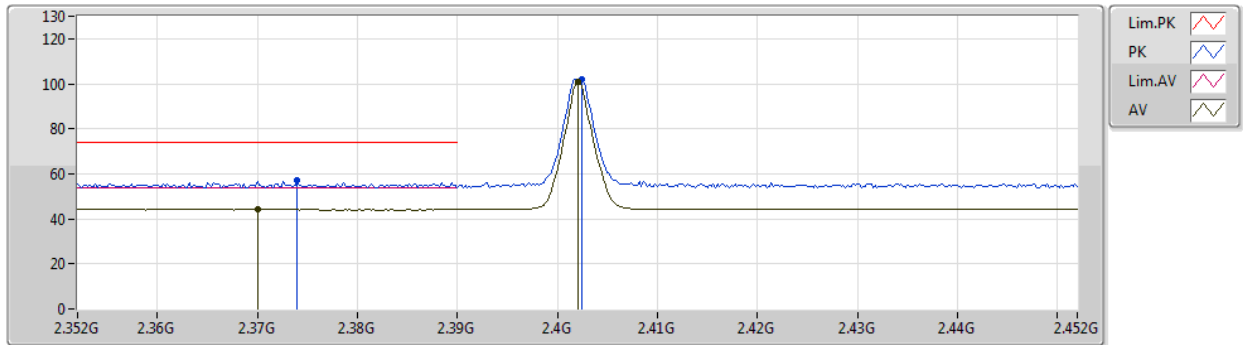


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3702G	44.29	54.00	-9.71	32.01	3	Vertical	292	2.70	-	12.28	27.31	4.70	-
AV	2.402G	98.26	Inf	-Inf	32.14	3	Vertical	292	2.70	-	66.12	27.41	4.73	-
PK	2.3686G	56.10	74.00	-17.90	32.00	3	Vertical	292	2.70	-	24.10	27.31	4.69	-
PK	2.4018G	100.00	Inf	-Inf	32.14	3	Vertical	292	2.70	-	67.86	27.41	4.73	-

BT-LE(1Mbps)

2402MHz_TX

14/09/2019

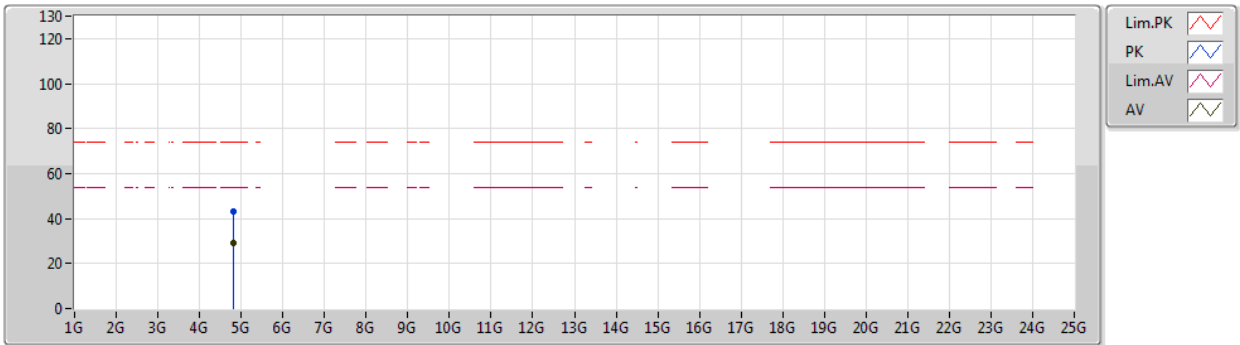


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.37G	44.40	54.00	-9.60	32.00	3	Horizontal	178	3.00	-	12.40	27.31	4.69	-
AV	2.402G	100.59	Inf	-Inf	32.14	3	Horizontal	178	3.00	-	68.45	27.41	4.73	-
PK	2.374G	56.96	74.00	-17.04	32.02	3	Horizontal	178	3.00	-	24.94	27.32	4.70	-
PK	2.4024G	102.26	Inf	-Inf	32.14	3	Horizontal	178	3.00	-	70.12	27.41	4.73	-

BT-LE(1Mbps)

14/09/2019

2402MHz_TX

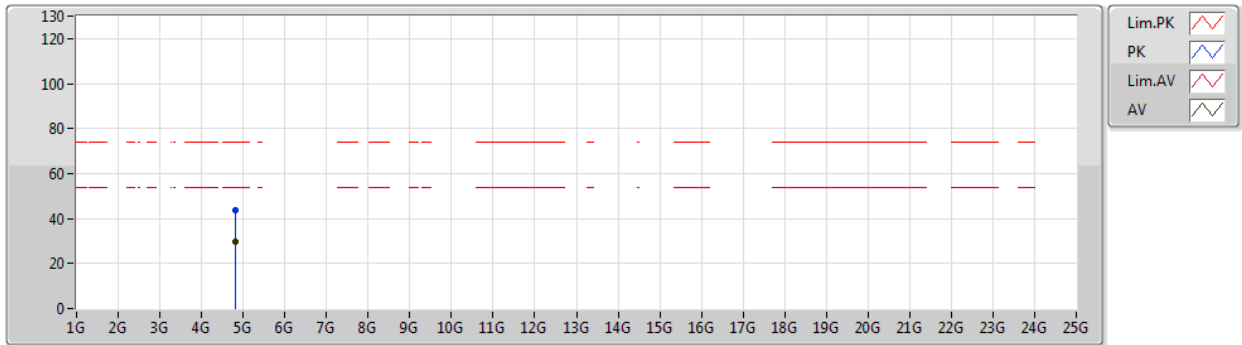


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80387G	29.38	54.00	-24.62	3.64	3	Vertical	284	1.86	-	25.74	31.35	6.78	34.49
PK	4.80455G	43.04	74.00	-30.96	3.64	3	Vertical	284	1.86	-	39.40	31.35	6.78	34.49

BT-LE(1Mbps)

14/09/2019

2402MHz_TX

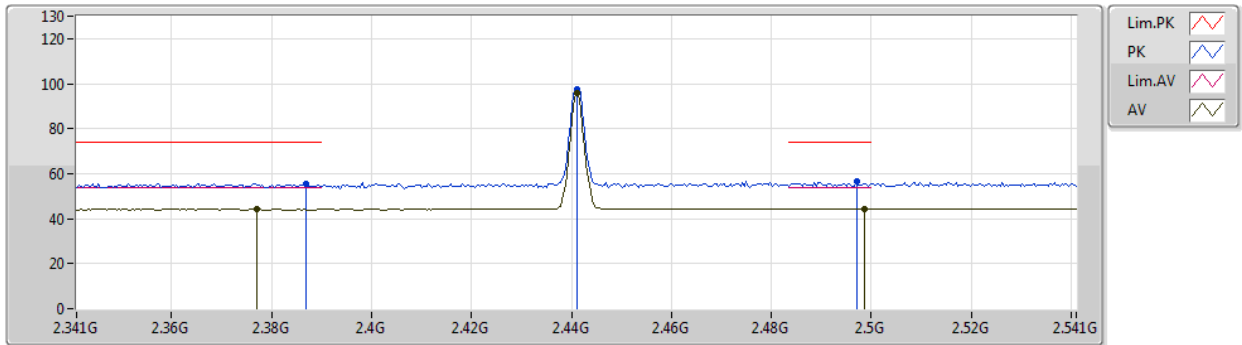


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80448G	29.71	54.00	-24.29	3.64	3	Horizontal	346	1.37	-	26.07	31.35	6.78	34.49
PK	4.80378G	43.71	74.00	-30.29	3.64	3	Horizontal	346	1.37	-	40.07	31.35	6.78	34.49

BT-LE(1Mbps)

2441MHz_TX

14/09/2019

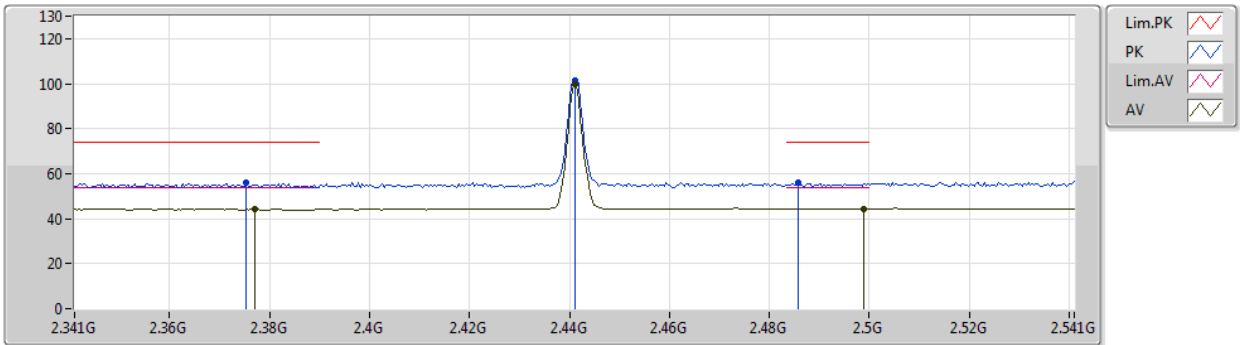


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.377G	44.36	54.00	-9.64	32.03	3	Vertical	293	2.67	-	12.33	27.33	4.70	-
AV	2.441G	95.85	Inf	-Inf	32.30	3	Vertical	293	2.67	-	63.55	27.52	4.78	-
AV	2.4986G	44.45	54.00	-9.55	32.55	3	Vertical	293	2.67	-	11.90	27.70	4.85	-
PK	2.387G	55.50	74.00	-18.50	32.07	3	Vertical	293	2.67	-	23.43	27.36	4.71	-
PK	2.441G	97.54	Inf	-Inf	32.30	3	Vertical	293	2.67	-	65.24	27.52	4.78	-
PK	2.497G	56.49	74.00	-17.51	32.53	3	Vertical	293	2.67	-	23.96	27.69	4.84	-

BT-LE(1Mbps)

2441MHz_TX

14/09/2019

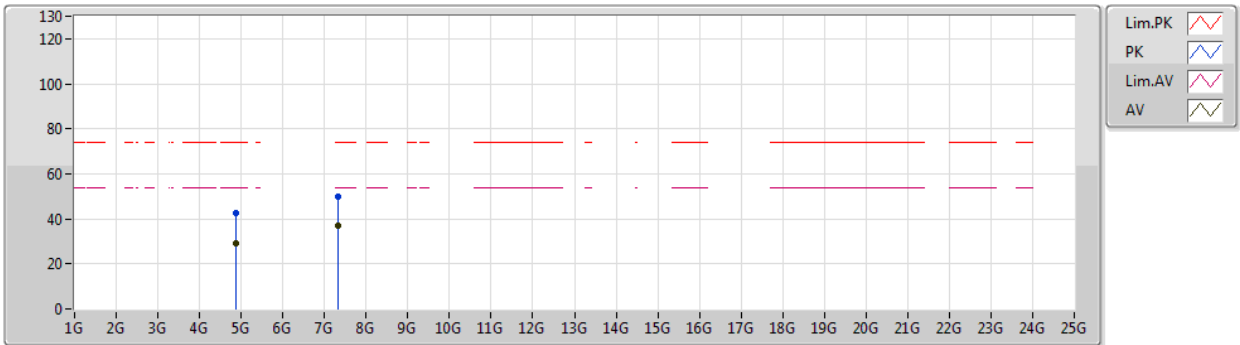


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.377G	44.36	54.00	-9.64	32.03	3	Horizontal	180	2.99	-	12.33	27.33	4.70	-
AV	2.441G	99.73	Inf	-Inf	32.30	3	Horizontal	180	2.99	-	67.43	27.52	4.78	-
AV	2.499G	44.47	54.00	-9.53	32.55	3	Horizontal	180	2.99	-	11.92	27.70	4.85	-
PK	2.3754G	55.97	74.00	-18.03	32.03	3	Horizontal	180	2.99	-	23.94	27.33	4.70	-
PK	2.441G	101.37	Inf	-Inf	32.30	3	Horizontal	180	2.99	-	69.07	27.52	4.78	-
PK	2.4858G	56.13	74.00	-17.87	32.49	3	Horizontal	180	2.99	-	23.64	27.66	4.83	-

BT-LE(1Mbps)

2441MHz_TX

14/09/2019

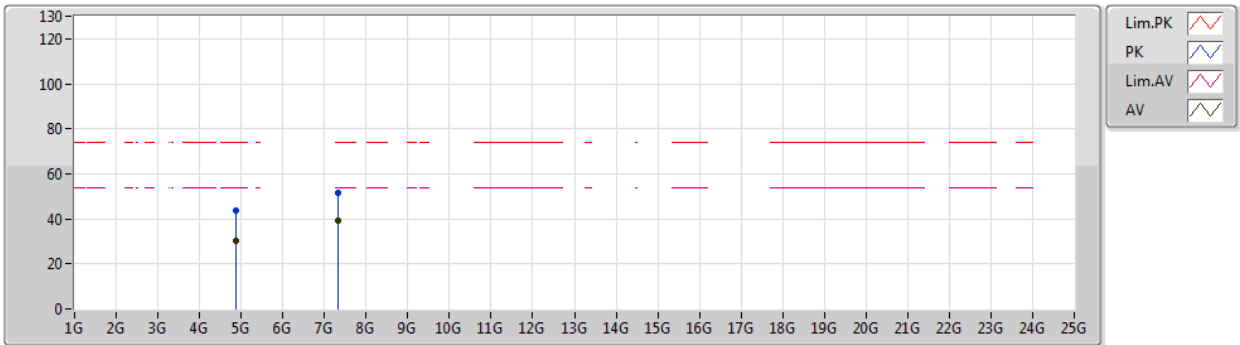


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88195G	29.03	54.00	-24.97	3.83	3	Vertical	281	1.50	-	25.20	31.49	6.81	34.47
AV	7.32392G	37.18	54.00	-16.82	9.91	3	Vertical	23	2.79	-	27.27	36.04	8.62	34.75
PK	4.87951G	42.83	74.00	-31.17	3.82	3	Vertical	281	1.50	-	39.01	31.48	6.81	34.47
PK	7.32258G	49.97	74.00	-24.03	9.91	3	Vertical	23	2.79	-	40.06	36.04	8.62	34.75

BT-LE(1Mbps)

2441MHz_TX

14/09/2019

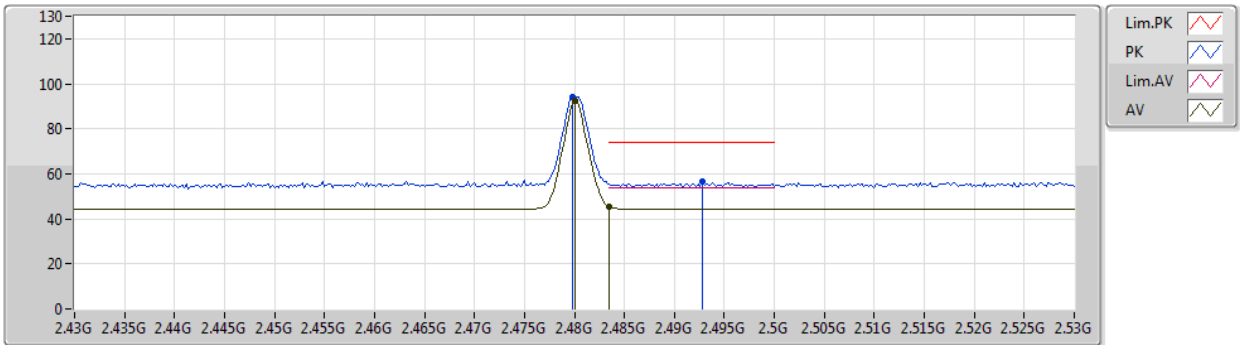


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88184G	30.21	54.00	-23.79	3.83	3	Horizontal	348	2.31	-	26.38	31.49	6.81	34.47
AV	7.32386G	39.50	54.00	-14.50	9.91	3	Horizontal	85	1.00	-	29.59	36.04	8.62	34.75
PK	4.88139G	43.79	74.00	-30.21	3.83	3	Horizontal	348	2.31	-	39.96	31.49	6.81	34.47
PK	7.32419G	51.35	74.00	-22.65	9.91	3	Horizontal	85	1.00	-	41.44	36.04	8.62	34.75

BT-LE(1Mbps)

2480MHz_TX

14/09/2019

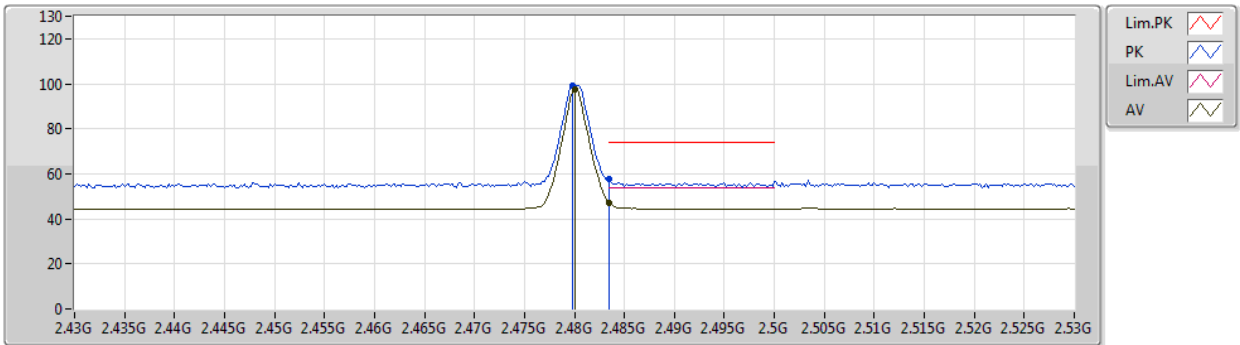


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	92.33	Inf	-Inf	32.46	3	Vertical	250	2.87	-	59.87	27.64	4.82	-
AV	2.4835G	45.42	54.00	-8.58	32.48	3	Vertical	250	2.87	-	12.94	27.65	4.83	-
PK	2.4798G	94.03	Inf	-Inf	32.46	3	Vertical	250	2.87	-	61.57	27.64	4.82	-
PK	2.4928G	56.44	74.00	-17.56	32.52	3	Vertical	250	2.87	-	23.92	27.68	4.84	-

BT-LE(1Mbps)

2480MHz_TX

14/09/2019

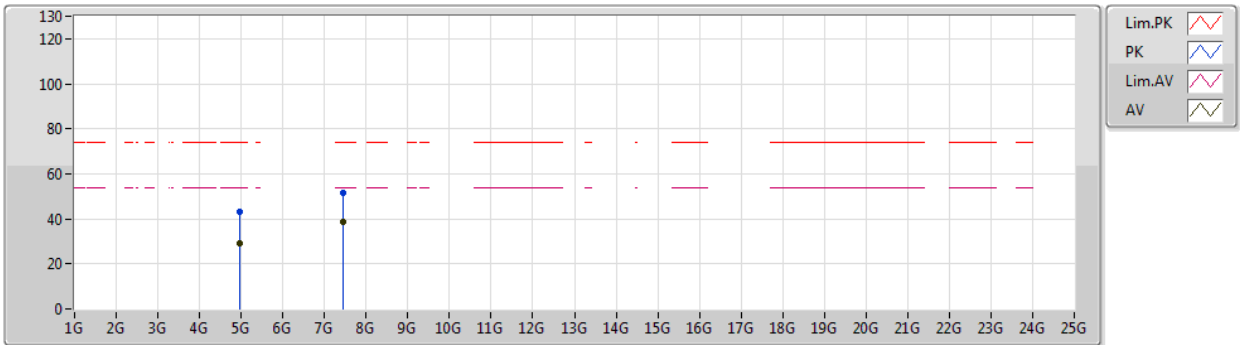


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	97.57	Inf	-Inf	32.46	3	Horizontal	179	2.89	-	65.11	27.64	4.82	-
AV	2.4835G	47.28	54.00	-6.72	32.48	3	Horizontal	179	2.89	-	14.80	27.65	4.83	-
PK	2.4798G	99.26	Inf	-Inf	32.46	3	Horizontal	179	2.89	-	66.80	27.64	4.82	-
PK	2.4835G	57.44	74.00	-16.56	32.48	3	Horizontal	179	2.89	-	24.96	27.65	4.83	-

BT-LE(1Mbps)

2480MHz_TX

14/09/2019

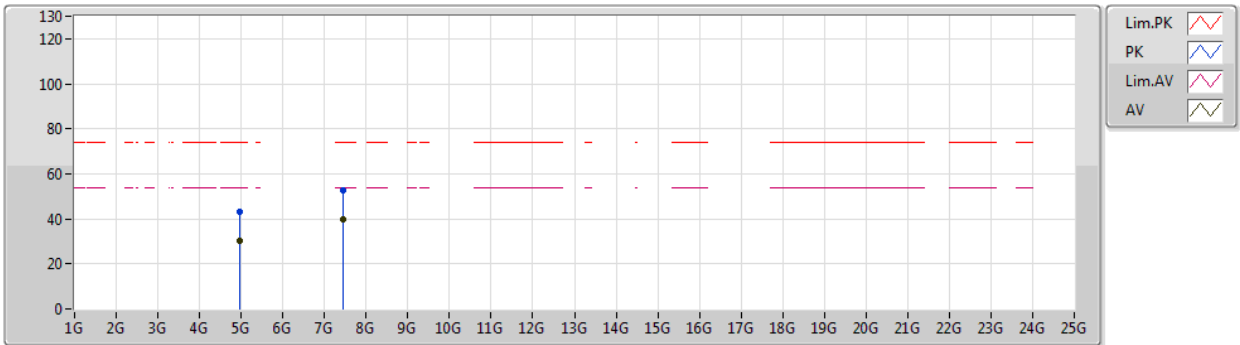


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96049G	29.41	54.00	-24.59	4.03	3	Vertical	292	1.06	-	25.38	31.63	6.84	34.44
AV	7.44088G	38.64	54.00	-15.36	10.25	3	Vertical	25	2.06	-	28.39	36.35	8.68	34.78
PK	4.96037G	43.12	74.00	-30.88	4.03	3	Vertical	292	1.06	-	39.09	31.63	6.84	34.44
PK	7.43937G	51.55	74.00	-22.45	10.24	3	Vertical	25	2.06	-	41.31	36.34	8.68	34.78

BT-LE(1Mbps)

14/09/2019

2480MHz_TX

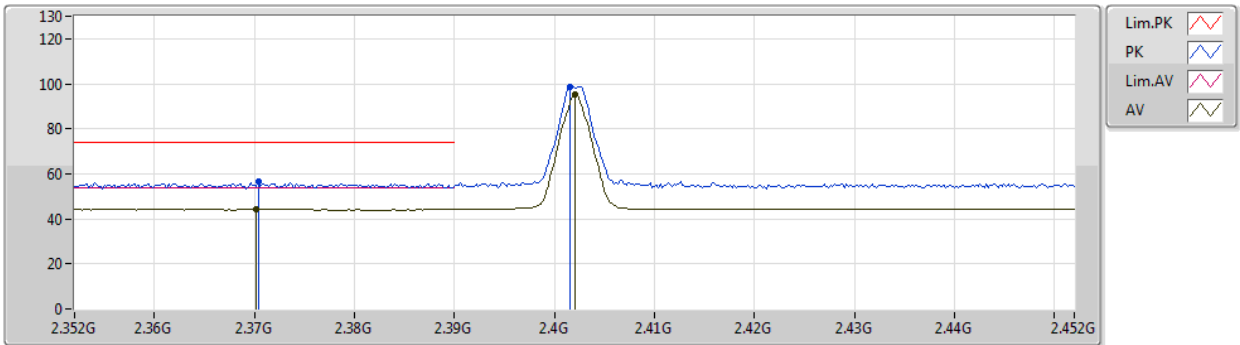


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96044G	30.21	54.00	-23.79	4.03	3	Horizontal	352	2.27	-	26.18	31.63	6.84	34.44
AV	7.44089G	39.81	54.00	-14.19	10.25	3	Horizontal	90	1.00	-	29.56	36.35	8.68	34.78
PK	4.95961G	43.41	74.00	-30.59	4.02	3	Horizontal	352	2.27	-	39.39	31.63	6.83	34.44
PK	7.43995G	52.78	74.00	-21.22	10.24	3	Horizontal	90	1.00	-	42.54	36.34	8.68	34.78

BT-LE(2Mbps)

2402MHz_TX

14/09/2019

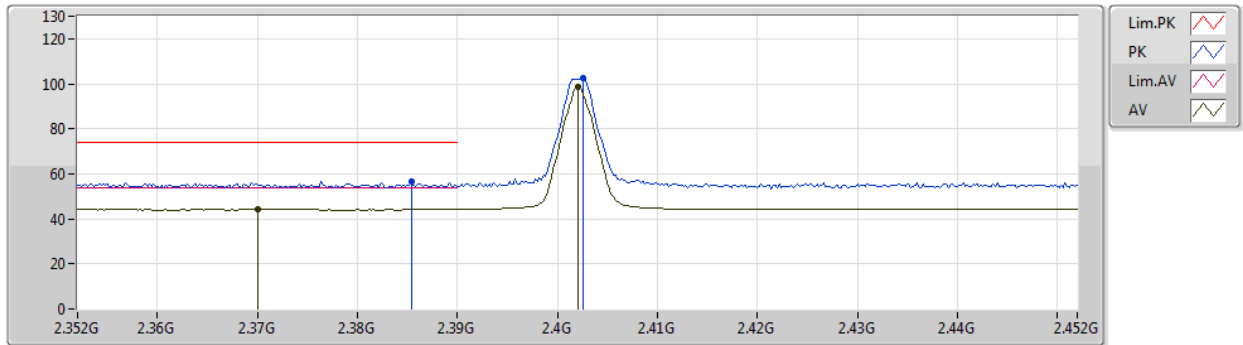


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3702G	44.22	54.00	-9.78	32.01	3	Vertical	275	2.48	-	12.21	27.31	4.70	-
AV	2.402G	95.13	Inf	-Inf	32.14	3	Vertical	275	2.48	-	62.99	27.41	4.73	-
PK	2.3704G	56.35	74.00	-17.65	32.01	3	Vertical	275	2.48	-	24.34	27.31	4.70	-
PK	2.4016G	98.67	Inf	-Inf	32.13	3	Vertical	275	2.48	-	66.54	27.40	4.73	-

BT-LE(2Mbps)

2402MHz_TX

14/09/2019

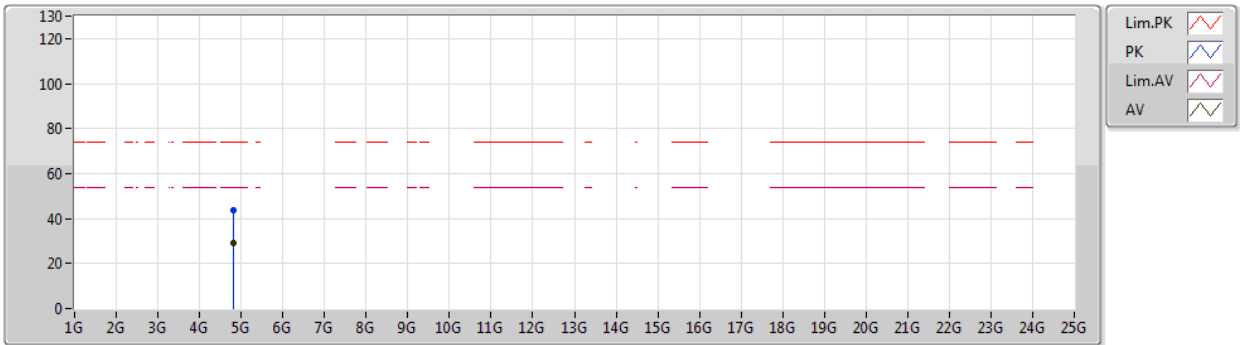


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.37G	44.24	54.00	-9.76	32.00	3	Horizontal	179	3.00	-	12.24	27.31	4.69	-
AV	2.402G	98.73	Inf	-Inf	32.14	3	Horizontal	179	3.00	-	66.59	27.41	4.73	-
PK	2.3854G	56.65	74.00	-17.35	32.07	3	Horizontal	179	3.00	-	24.58	27.36	4.71	-
PK	2.4026G	102.31	Inf	-Inf	32.14	3	Horizontal	179	3.00	-	70.17	27.41	4.73	-

BT-LE(2Mbps)

14/09/2019

2402MHz_TX

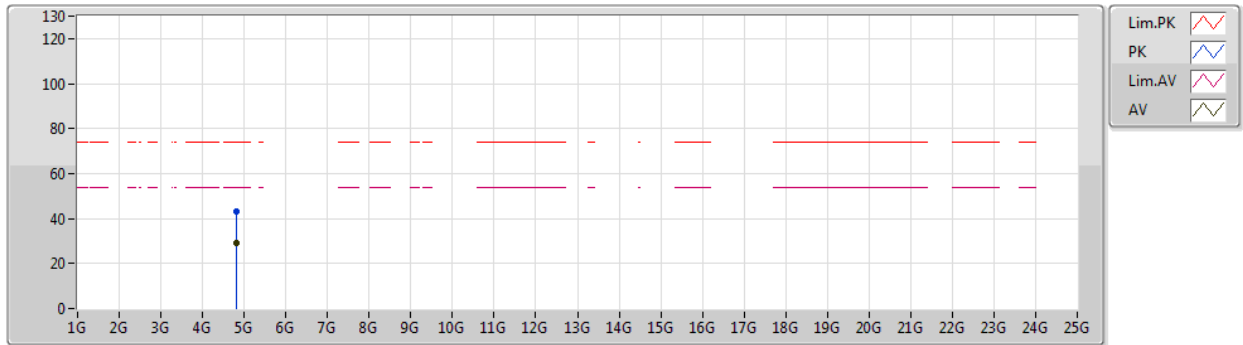


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8051G	29.13	54.00	-24.87	3.64	3	Vertical	301	2.37	-	25.49	31.35	6.78	34.49
PK	4.80565G	43.62	74.00	-30.38	3.64	3	Vertical	301	2.37	-	39.98	31.35	6.78	34.49

BT-LE(2Mbps)

14/09/2019

2402MHz_TX

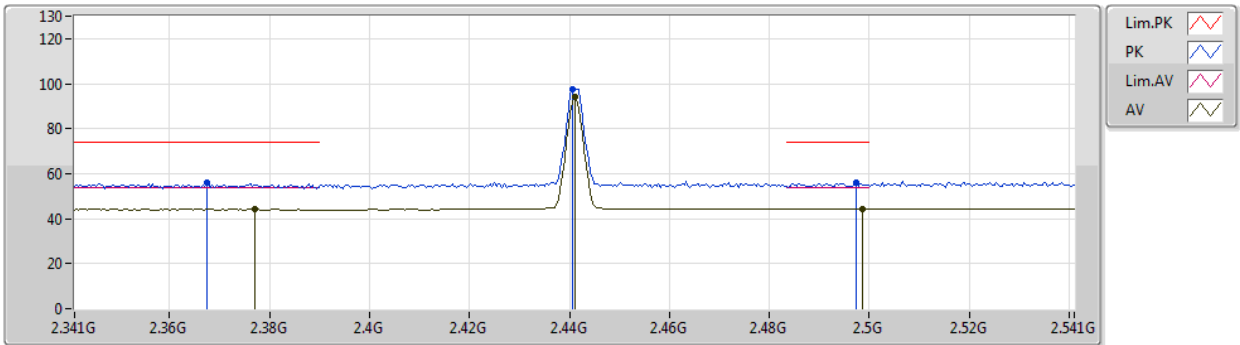


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80515G	29.19	54.00	-24.81	3.64	3	Horizontal	342	1.45	-	25.55	31.35	6.78	34.49
PK	4.80402G	43.32	74.00	-30.68	3.64	3	Horizontal	342	1.45	-	39.68	31.35	6.78	34.49

BT-LE(2Mbps)

2441MHz_TX

14/09/2019

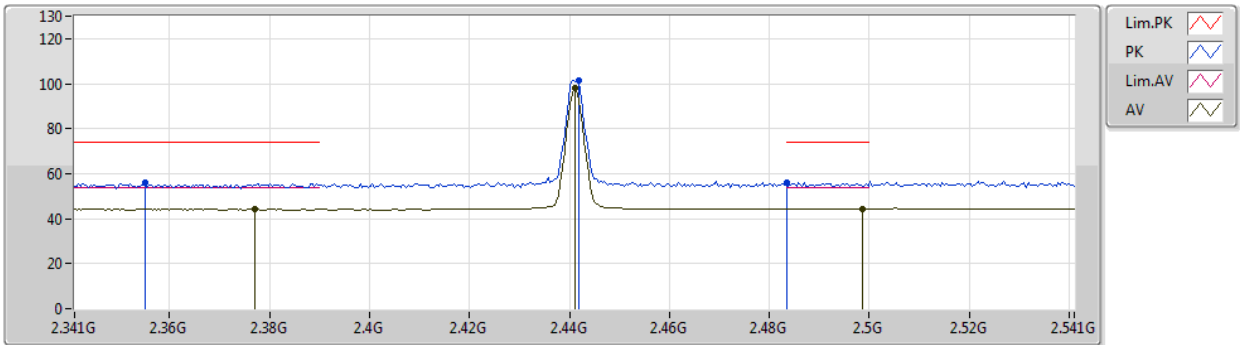


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.377G	44.22	54.00	-9.78	32.03	3	Vertical	291	2.66	-	12.19	27.33	4.70	-
AV	2.441G	94.02	Inf	-Inf	32.30	3	Vertical	291	2.66	-	61.72	27.52	4.78	-
AV	2.4986G	44.48	54.00	-9.52	32.55	3	Vertical	291	2.66	-	11.93	27.70	4.85	-
PK	2.3674G	55.78	74.00	-18.22	31.99	3	Vertical	291	2.66	-	23.79	27.30	4.69	-
PK	2.4406G	97.58	Inf	-Inf	32.30	3	Vertical	291	2.66	-	65.28	27.52	4.78	-
PK	2.4974G	55.88	74.00	-18.12	32.53	3	Vertical	291	2.66	-	23.35	27.69	4.84	-

BT-LE(2Mbps)

2441MHz_TX

14/09/2019

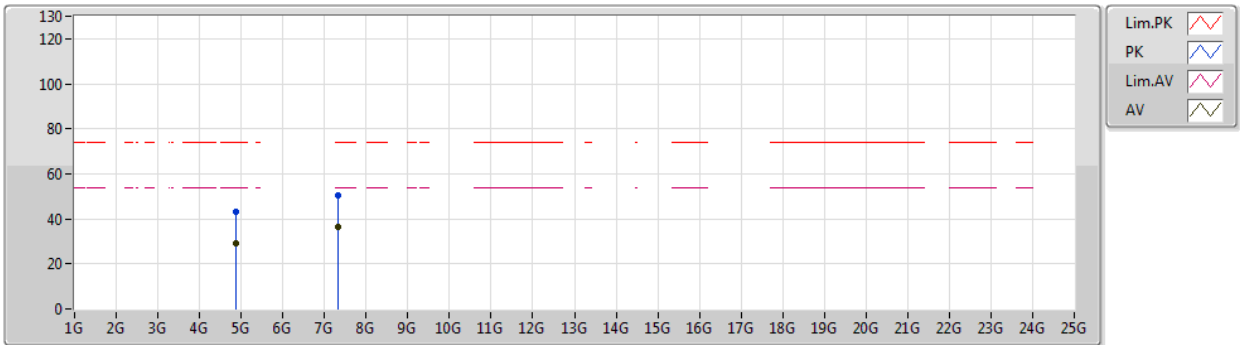


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.377G	44.28	54.00	-9.72	32.03	3	Horizontal	179	3.00	-	12.25	27.33	4.70	-
AV	2.441G	97.89	Inf	-Inf	32.30	3	Horizontal	179	3.00	-	65.59	27.52	4.78	-
AV	2.4986G	44.48	54.00	-9.52	32.55	3	Horizontal	179	3.00	-	11.93	27.70	4.85	-
PK	2.355G	55.99	74.00	-18.01	31.95	3	Horizontal	179	3.00	-	24.04	27.27	4.68	-
PK	2.4418G	101.40	Inf	-Inf	32.31	3	Horizontal	179	3.00	-	69.09	27.53	4.78	-
PK	2.4835G	56.12	74.00	-17.88	32.48	3	Horizontal	179	3.00	-	23.64	27.65	4.83	-

BT-LE(2Mbps)

2441MHz_TX

14/09/2019

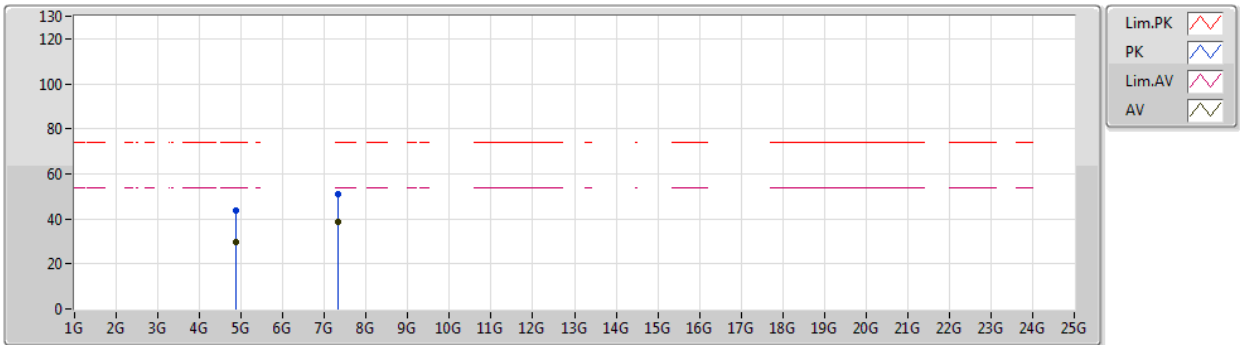


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88311G	29.15	54.00	-24.85	3.83	3	Vertical	288	1.50	-	25.32	31.49	6.81	34.47
AV	7.32196G	36.16	54.00	-17.84	9.91	3	Vertical	10	1.98	-	26.25	36.04	8.62	34.75
PK	4.88242G	43.08	74.00	-30.92	3.83	3	Vertical	288	1.50	-	39.25	31.49	6.81	34.47
PK	7.32197G	50.42	74.00	-23.58	9.91	3	Vertical	10	1.98	-	40.51	36.04	8.62	34.75

BT-LE(2Mbps)

2441MHz_TX

14/09/2019

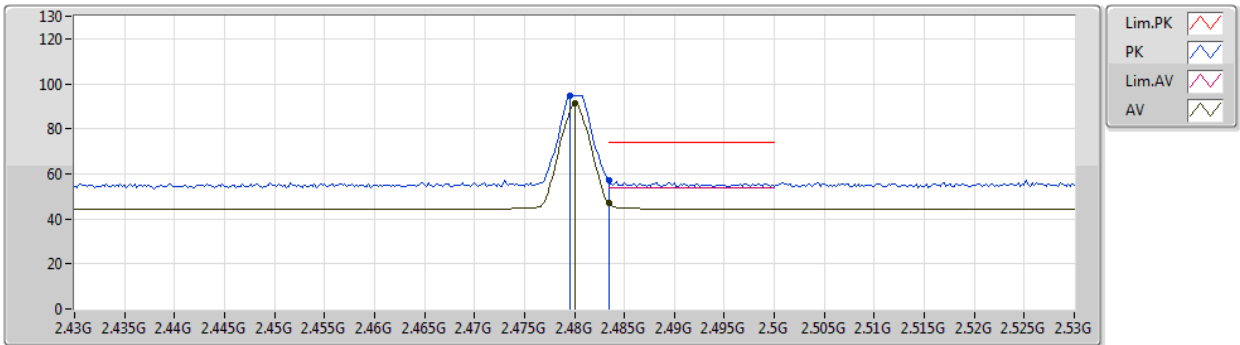


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88309G	29.88	54.00	-24.12	3.83	3	Horizontal	326	1.00	-	26.05	31.49	6.81	34.47
AV	7.32203G	38.74	54.00	-15.26	9.91	3	Horizontal	89	1.08	-	28.83	36.04	8.62	34.75
PK	4.88287G	43.49	74.00	-30.51	3.83	3	Horizontal	326	1.00	-	39.66	31.49	6.81	34.47
PK	7.32184G	50.97	74.00	-23.03	9.91	3	Horizontal	89	1.08	-	41.06	36.04	8.62	34.75

BT-LE(2Mbps)

2480MHz_TX

14/09/2019

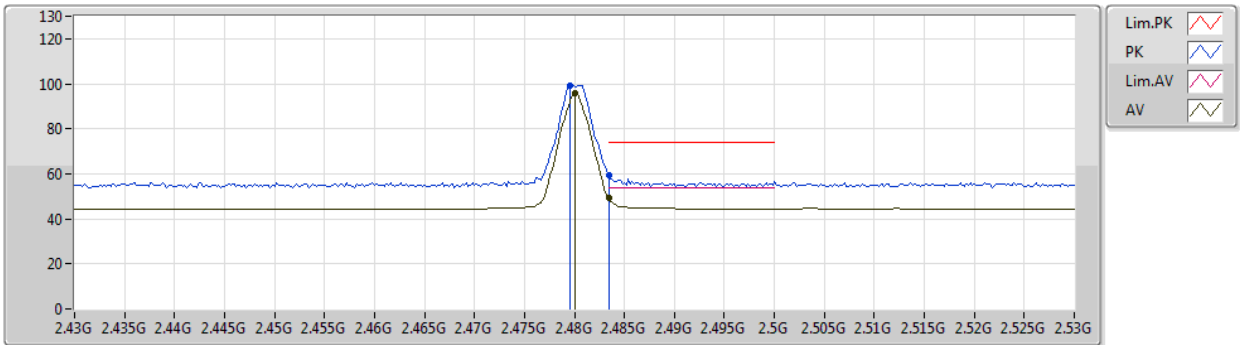


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	91.32	Inf	-Inf	32.46	3	Vertical	294	2.54	-	58.86	27.64	4.82	-
AV	2.4835G	46.86	54.00	-7.14	32.48	3	Vertical	294	2.54	-	14.38	27.65	4.83	-
PK	2.4796G	94.88	Inf	-Inf	32.46	3	Vertical	294	2.54	-	62.42	27.64	4.82	-
PK	2.4835G	57.11	74.00	-16.89	32.48	3	Vertical	294	2.54	-	24.63	27.65	4.83	-

BT-LE(2Mbps)

2480MHz_TX

14/09/2019

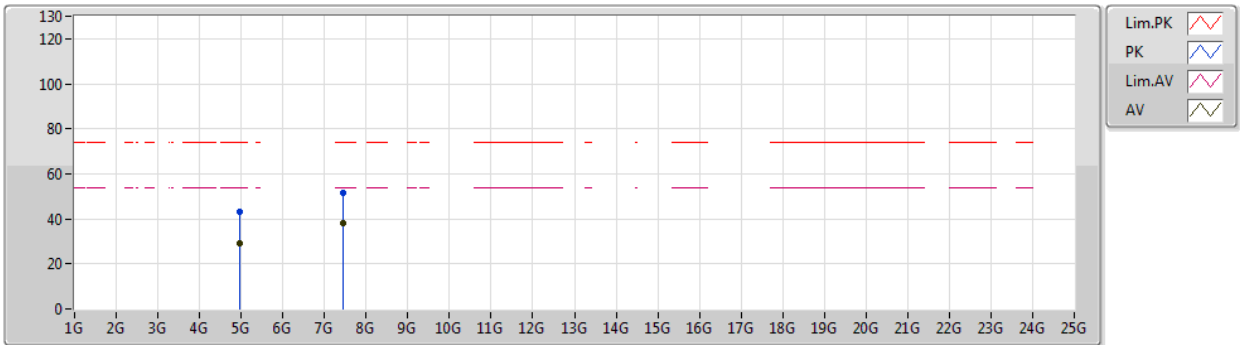


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	95.72	Inf	-Inf	32.46	3	Horizontal	180	2.89	-	63.26	27.64	4.82	-
AV	2.4835G	49.22	54.00	-4.78	32.48	3	Horizontal	180	2.89	-	16.74	27.65	4.83	-
PK	2.4796G	99.30	Inf	-Inf	32.46	3	Horizontal	180	2.89	-	66.84	27.64	4.82	-
PK	2.4835G	59.13	74.00	-14.87	32.48	3	Horizontal	180	2.89	-	26.65	27.65	4.83	-

BT-LE(2Mbps)

2480MHz_TX

14/09/2019

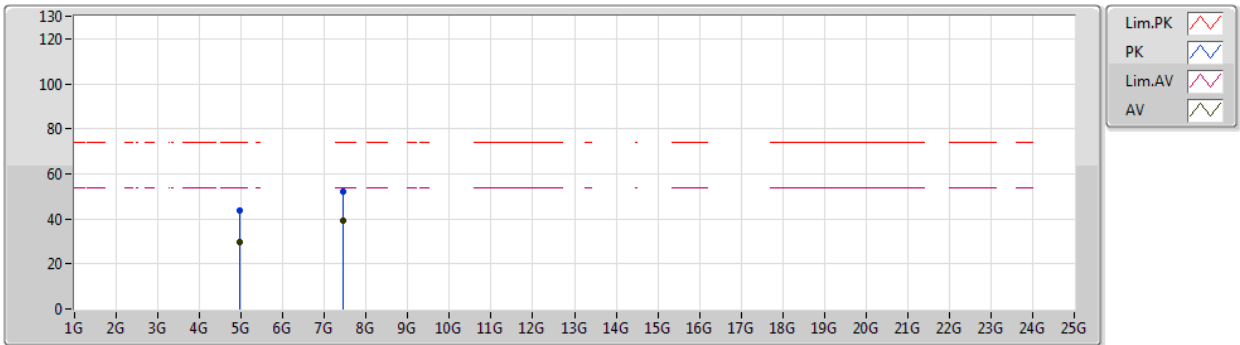


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96109G	29.17	54.00	-24.83	4.03	3	Vertical	208	1.22	-	25.14	31.63	6.84	34.44
AV	7.44147G	38.12	54.00	-15.88	10.25	3	Vertical	23	2.07	-	27.87	36.35	8.68	34.78
PK	4.96108G	43.41	74.00	-30.59	4.03	3	Vertical	208	1.22	-	39.38	31.63	6.84	34.44
PK	7.43878G	51.70	74.00	-22.30	10.24	3	Vertical	23	2.07	-	41.46	36.34	8.68	34.78

BT-LE(2Mbps)

2480MHz_TX

14/09/2019

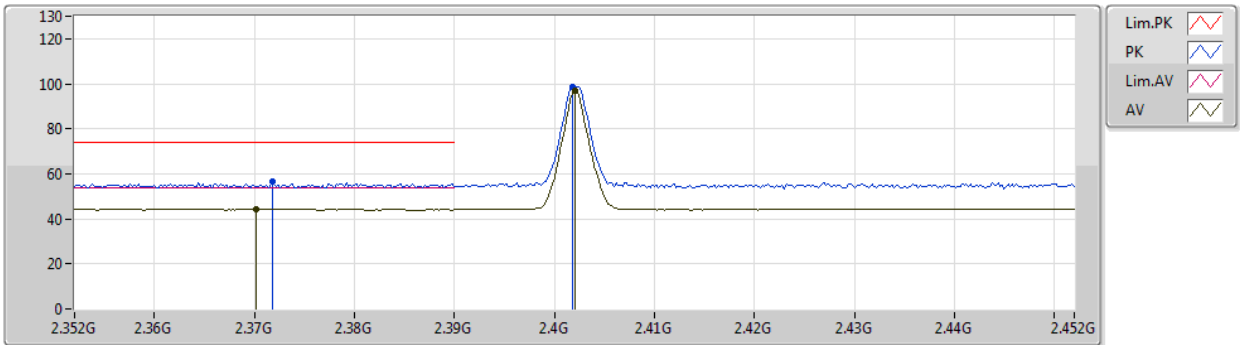


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96116G	29.86	54.00	-24.14	4.03	3	Horizontal	352	2.36	-	25.83	31.63	6.84	34.44
AV	7.43905G	39.20	54.00	-14.80	10.24	3	Horizontal	91	1.00	-	28.96	36.34	8.68	34.78
PK	4.96123G	43.78	74.00	-30.22	4.03	3	Horizontal	352	2.36	-	39.75	31.63	6.84	34.44
PK	7.4384G	51.93	74.00	-22.07	10.24	3	Horizontal	91	1.00	-	41.69	36.34	8.68	34.78

BT-LE(125kbps)

2402MHz_TX

14/09/2019

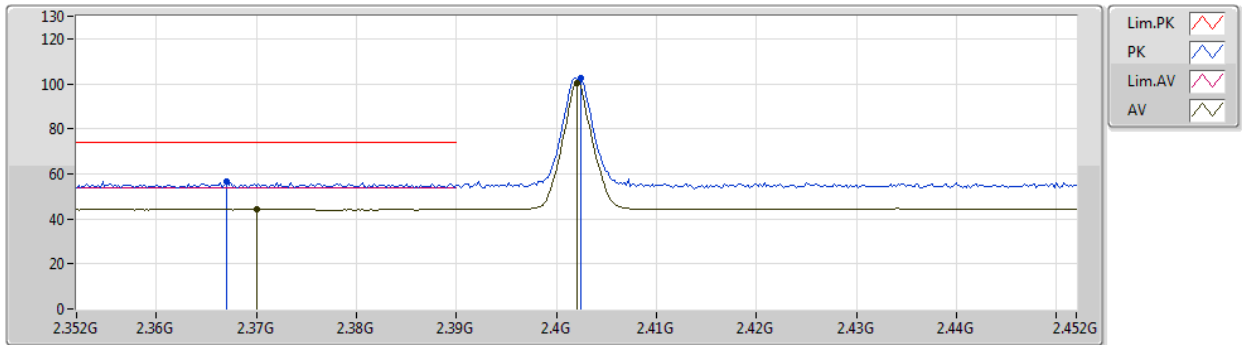


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3702G	44.22	54.00	-9.78	32.01	3	Vertical	275	2.48	-	12.21	27.31	4.70	-
AV	2.402G	96.82	Inf	-Inf	32.14	3	Vertical	275	2.48	-	64.68	27.41	4.73	-
PK	2.3718G	56.54	74.00	-17.46	32.02	3	Vertical	275	2.48	-	24.52	27.32	4.70	-
PK	2.4018G	98.72	Inf	-Inf	32.14	3	Vertical	275	2.48	-	66.58	27.41	4.73	-

BT-LE(125kbps)

2402MHz_TX

14/09/2019

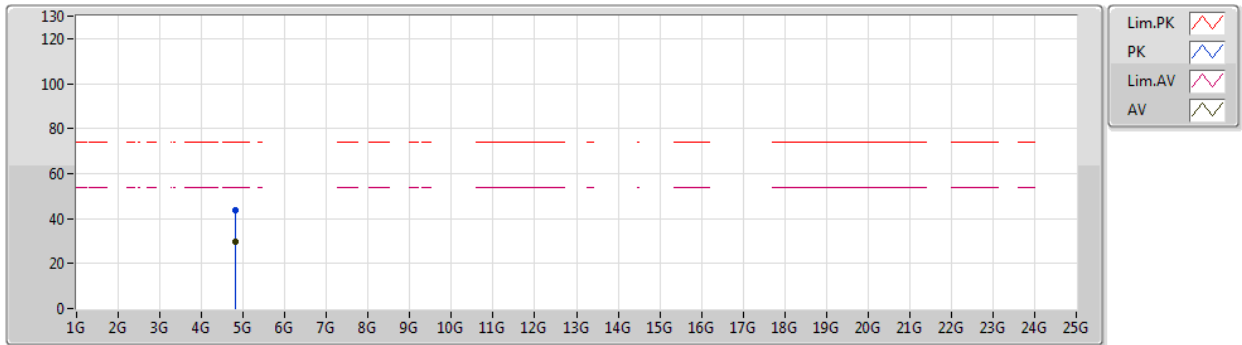


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.37G	44.39	54.00	-9.61	32.00	3	Horizontal	179	3.00	-	12.39	27.31	4.69	-
AV	2.402G	100.42	Inf	-Inf	32.14	3	Horizontal	179	3.00	-	68.28	27.41	4.73	-
PK	2.367G	56.71	74.00	-17.29	31.99	3	Horizontal	179	3.00	-	24.72	27.30	4.69	-
PK	2.4024G	102.28	Inf	-Inf	32.14	3	Horizontal	179	3.00	-	70.14	27.41	4.73	-

BT-LE(125kbps)

14/09/2019

2402MHz_TX

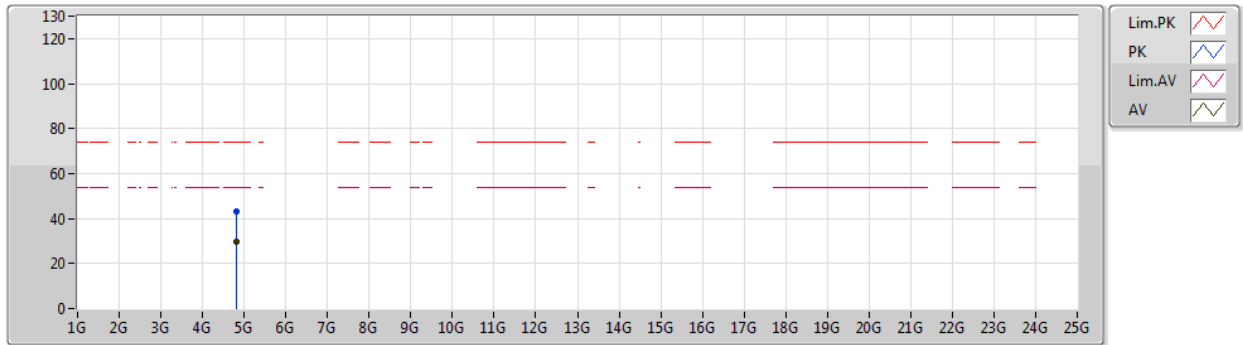


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8046G	29.78	54.00	-24.22	3.64	3	Vertical	284	2.06	-	26.14	31.35	6.78	34.49
PK	4.80469G	43.52	74.00	-30.48	3.64	3	Vertical	284	2.06	-	39.88	31.35	6.78	34.49

BT-LE(125kbps)

14/09/2019

2402MHz_TX

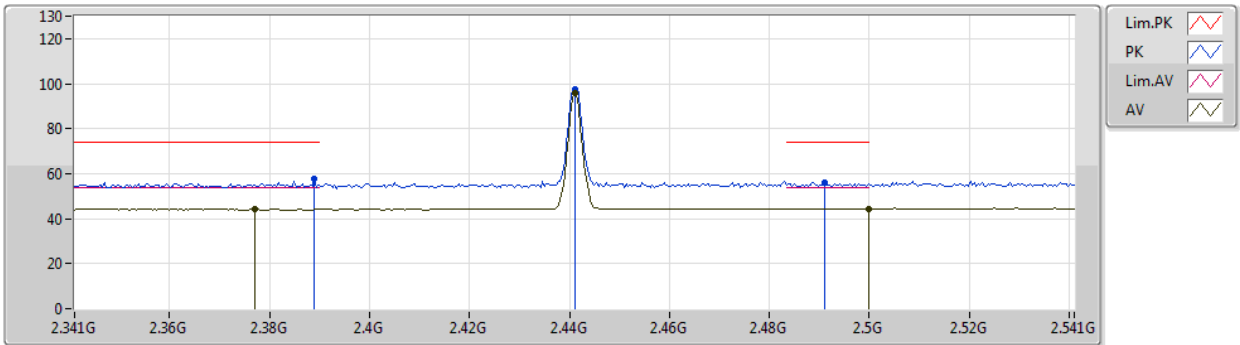


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80456G	29.73	54.00	-24.27	3.64	3	Horizontal	343	1.45	-	26.09	31.35	6.78	34.49
PK	4.80468G	43.37	74.00	-30.63	3.64	3	Horizontal	343	1.45	-	39.73	31.35	6.78	34.49

BT-LE(125kbps)

2441MHz_TX

14/09/2019

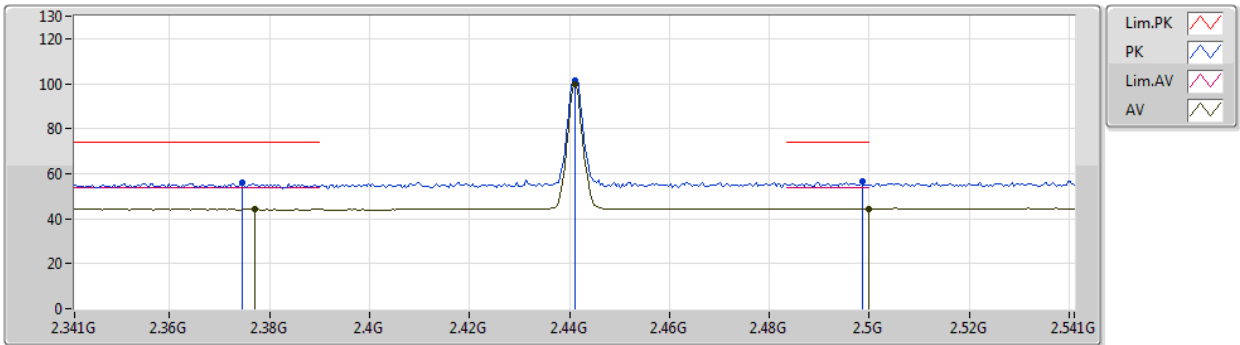


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.377G	44.29	54.00	-9.71	32.03	3	Vertical	290	2.66	-	12.26	27.33	4.70	-
AV	2.441G	95.68	Inf	-Inf	32.30	3	Vertical	290	2.66	-	63.38	27.52	4.78	-
AV	2.4998G	44.47	54.00	-9.53	32.55	3	Vertical	290	2.66	-	11.92	27.70	4.85	-
PK	2.389G	57.63	74.00	-16.37	32.09	3	Vertical	290	2.66	-	25.54	27.37	4.72	-
PK	2.441G	97.54	Inf	-Inf	32.30	3	Vertical	290	2.66	-	65.24	27.52	4.78	-
PK	2.491G	56.17	74.00	-17.83	32.51	3	Vertical	290	2.66	-	23.66	27.67	4.84	-

BT-LE(125kbps)

2441MHz_TX

14/09/2019

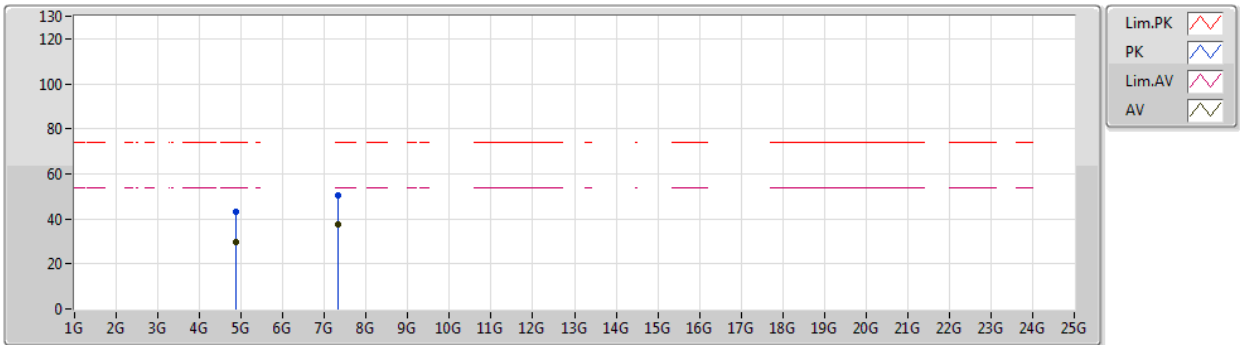


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.377G	44.33	54.00	-9.67	32.03	3	Horizontal	179	3.00	-	12.30	27.33	4.70	-
AV	2.441G	99.63	Inf	-Inf	32.30	3	Horizontal	179	3.00	-	67.33	27.52	4.78	-
AV	2.4998G	44.48	54.00	-9.52	32.55	3	Horizontal	179	3.00	-	11.93	27.70	4.85	-
PK	2.3746G	56.26	74.00	-17.74	32.02	3	Horizontal	179	3.00	-	24.24	27.32	4.70	-
PK	2.441G	101.43	Inf	-Inf	32.30	3	Horizontal	179	3.00	-	69.13	27.52	4.78	-
PK	2.4986G	56.82	74.00	-17.18	32.55	3	Horizontal	179	3.00	-	24.27	27.70	4.85	-

BT-LE(125kbps)

2441MHz_TX

14/09/2019

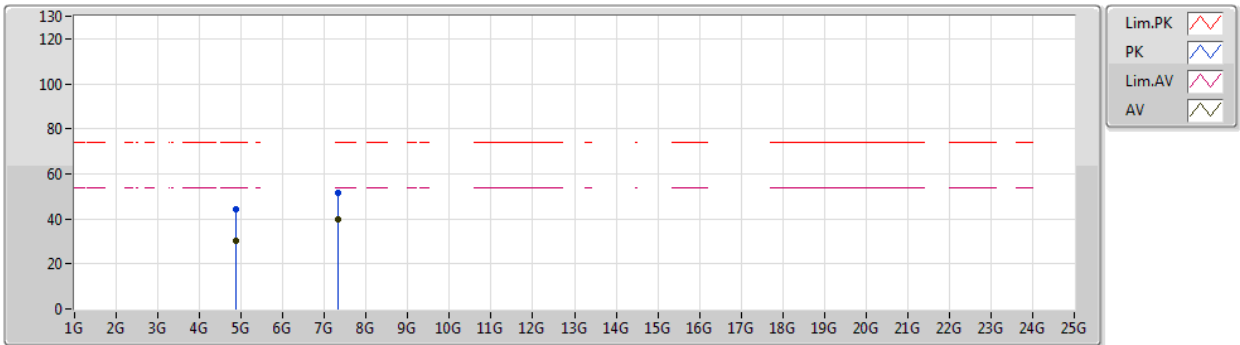


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88174G	29.53	54.00	-24.47	3.83	3	Vertical	288	1.50	-	25.70	31.49	6.81	34.47
AV	7.32394G	37.30	54.00	-16.70	9.91	3	Vertical	26	2.10	-	27.39	36.04	8.62	34.75
PK	4.88166G	42.98	74.00	-31.02	3.83	3	Vertical	288	1.50	-	39.15	31.49	6.81	34.47
PK	7.32247G	50.26	74.00	-23.74	9.91	3	Vertical	26	2.10	-	40.35	36.04	8.62	34.75

BT-LE(125kbps)

2441MHz_TX

14/09/2019

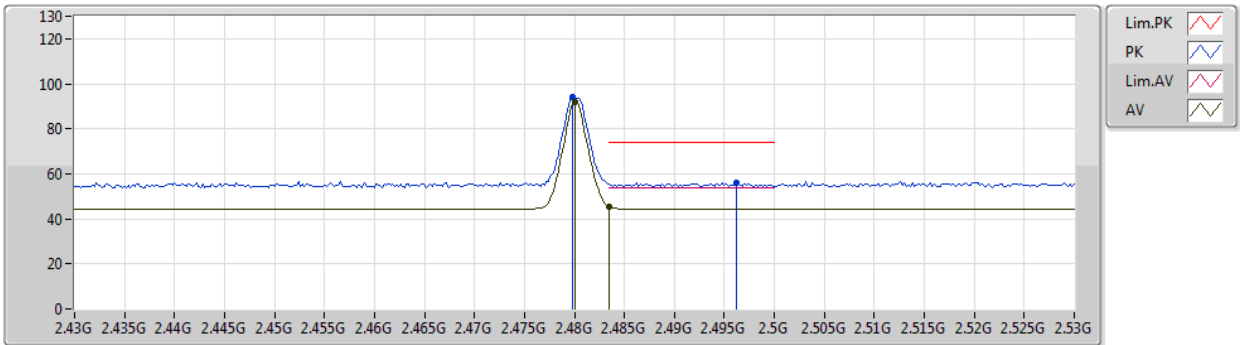


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88177G	30.33	54.00	-23.67	3.83	3	Horizontal	327	1.11	-	26.50	31.49	6.81	34.47
AV	7.3226G	39.56	54.00	-14.44	9.91	3	Horizontal	89	1.01	-	29.65	36.04	8.62	34.75
PK	4.88152G	44.04	74.00	-29.96	3.83	3	Horizontal	327	1.11	-	40.21	31.49	6.81	34.47
PK	7.32243G	51.75	74.00	-22.25	9.91	3	Horizontal	89	1.01	-	41.84	36.04	8.62	34.75

BT-LE(125kbps)

2480MHz_TX

14/09/2019

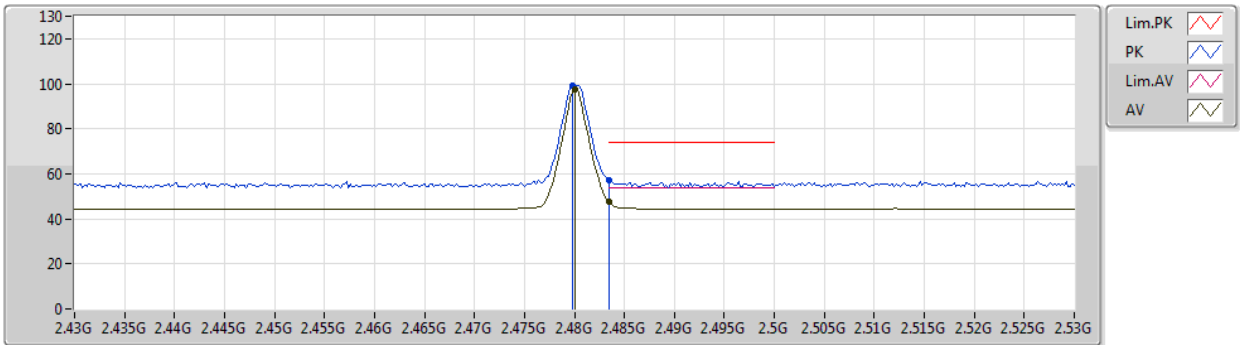


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	92.01	Inf	-Inf	32.46	3	Vertical	246	2.63	-	59.55	27.64	4.82	-
AV	2.4835G	45.42	54.00	-8.58	32.48	3	Vertical	246	2.63	-	12.94	27.65	4.83	-
PK	2.4798G	93.88	Inf	-Inf	32.46	3	Vertical	246	2.63	-	61.42	27.64	4.82	-
PK	2.4962G	56.20	74.00	-17.80	32.53	3	Vertical	246	2.63	-	23.67	27.69	4.84	-

BT-LE(125kbps)

2480MHz_TX

14/09/2019

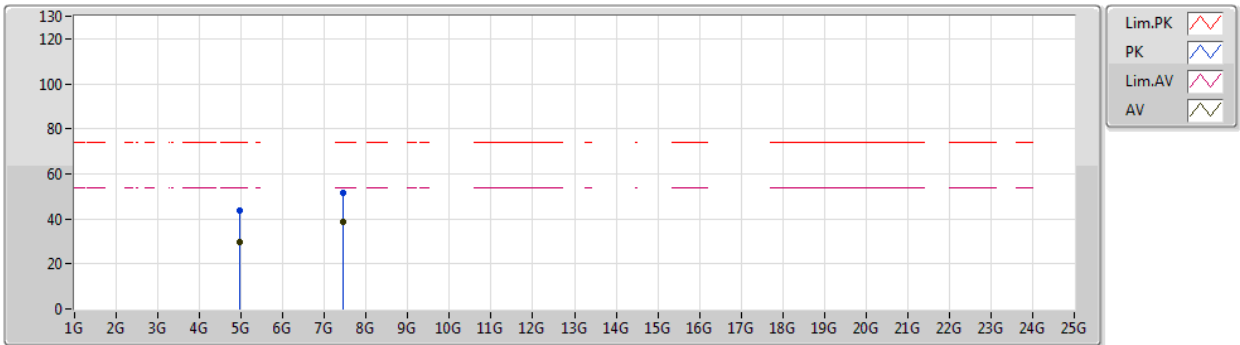


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.48G	97.54	Inf	-Inf	32.46	3	Horizontal	178	2.88	-	65.08	27.64	4.82	-
AV	2.4835G	47.36	54.00	-6.64	32.48	3	Horizontal	178	2.88	-	14.88	27.65	4.83	-
PK	2.4798G	99.38	Inf	-Inf	32.46	3	Horizontal	178	2.88	-	66.92	27.64	4.82	-
PK	2.4835G	57.22	74.00	-16.78	32.48	3	Horizontal	178	2.88	-	24.74	27.65	4.83	-

BT-LE(125kbps)

2480MHz_TX

14/09/2019

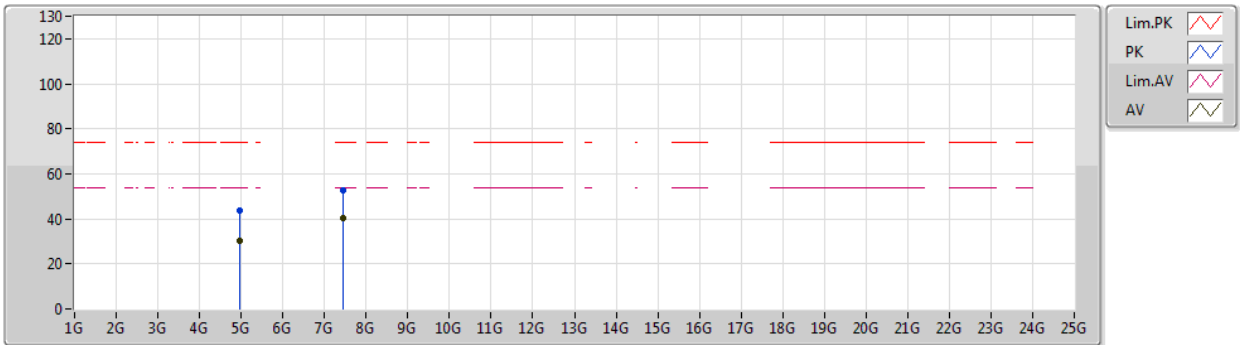


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96063G	29.85	54.00	-24.15	4.03	3	Vertical	215	2.97	-	25.82	31.63	6.84	34.44
AV	7.43958G	38.93	54.00	-15.07	10.24	3	Vertical	19	2.08	-	28.69	36.34	8.68	34.78
PK	4.95984G	43.67	74.00	-30.33	4.02	3	Vertical	215	2.97	-	39.65	31.63	6.83	34.44
PK	7.43974G	51.69	74.00	-22.31	10.24	3	Vertical	19	2.08	-	41.45	36.34	8.68	34.78

BT-LE(125kbps)

2480MHz_TX

14/09/2019



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	4.95988G	30.15	54.00	-23.85	4.02	3	Horizontal	329	1.18	-	26.13	31.63	6.83	34.44
AV	7.43959G	40.36	54.00	-13.64	10.24	3	Horizontal	108	1.98	-	30.12	36.34	8.68	34.78
PK	4.96076G	43.66	74.00	-30.34	4.03	3	Horizontal	329	1.18	-	39.63	31.63	6.84	34.44
PK	7.43953G	52.88	74.00	-21.12	10.24	3	Horizontal	108	1.98	-	42.64	36.34	8.68	34.78