

FCC Test Report

FCC ID : BKMAE-STI6200
Equipment : WLAN/BT Module
Brand Name : EPSON
Model Name : STI6200-D101
Applicant : SEIKO EPSON CORPORATION
3-3-5 Owa Suwa-shi Nagano-ken
392-8502 Japan
Manufacturer : SEIKO EPSON CORPORATION
6925 Tazawa, Toyoshina Azumino-shi,
Nagano 399-8285 Japan
Standard : 47 CFR FCC Part 15.247

The product was received on Jun. 30, 2020, and testing was started from Jul. 06, 2020 and completed on Jul. 15, 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 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

[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)	20dB Bandwidth	PASS	-
3.2	15.247(a)	Carrier Frequency Separation	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(a)	Number of Hopping Frequencies and Hopping Bandedge	PASS	-
3.5	15.247(a)	Time of Occupancy (Dwell Time)	PASS	-
3.6	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.7	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: Ann Hou

1 General Description

1.1 Information

1.1.1 RF General Information

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

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

Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	HONGBO	290-40488	PIFA	I-PEX
2	HONGBO	290-40488	PIFA	I-PEX

Ant.	Port	Gain (dBi)		
		2.4G	5G	BT
1	2	2.34	5.29	-
2	1	2.74	4.50	2.74

Note 1: The EUT has two antennas.

For 2.4GHz function:

For IEEE 802.11 b mode (1TX/2RX)

Only Ant. 2 (port 1) could transmit.

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

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

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

For BT function:

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

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

For 5GHz function:

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

Ant. 1 (port 2) and Ant. 2 (port 1) 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-BR(1Mbps)	0.768	1.15	2.891m	1k
BT-EDR(2Mbps)	0.778	1.09	2.925m	1k
BT-EDR(3Mbps)	0.776	1.1	2.925m	1k

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	23.5~24.1°C / 53~58%	15/Jul/2020
RF Conducted	TH06-HY	Raven	22.4~23.3°C / 54~60%	08/Jul/2020
Radiated	03CH02-HY	Daniel	21.2~27.3°C / 54~61%	06/Jul/2020~ 08/Jul/2020

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

2.2 Test Channel Mode

Test Software	RFTesTool
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Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	0
2440MHz	0
2480MHz	0
BT-EDR(2Mbps)	-
2402MHz	0
2440MHz	0
2480MHz	0
BT-EDR(3Mbps)	-
2402MHz	0
2440MHz	0
2480MHz	0

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	20dB Bandwidth Carrier Frequency Separation Maximum Conducted Output Power Number of Hopping Frequencies Hopping Bandedge Time of Occupancy (Dwell Time) Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains ☒ Non-adaptive frequency hopping systems (Non-AFH) ☒ adaptive frequency hopping systems (AFH)
Non-AFH Mode configuration was found to be the worst case and measured during the test.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
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	Z Plane
	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	2.4GHz WLAN + Bluetooth
2	5GHz WLAN + Bluetooth
Refer to Sporton Test Report No.: FA070125 for Co-location RF Exposure Evaluation.	

2.4 Accessories

Accessories				
DB1 Antenna	Brand Name	HONGBO	Model Name	290-40488
DB2 Antenna	Brand Name	HONGBO	Model Name	290-40488

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

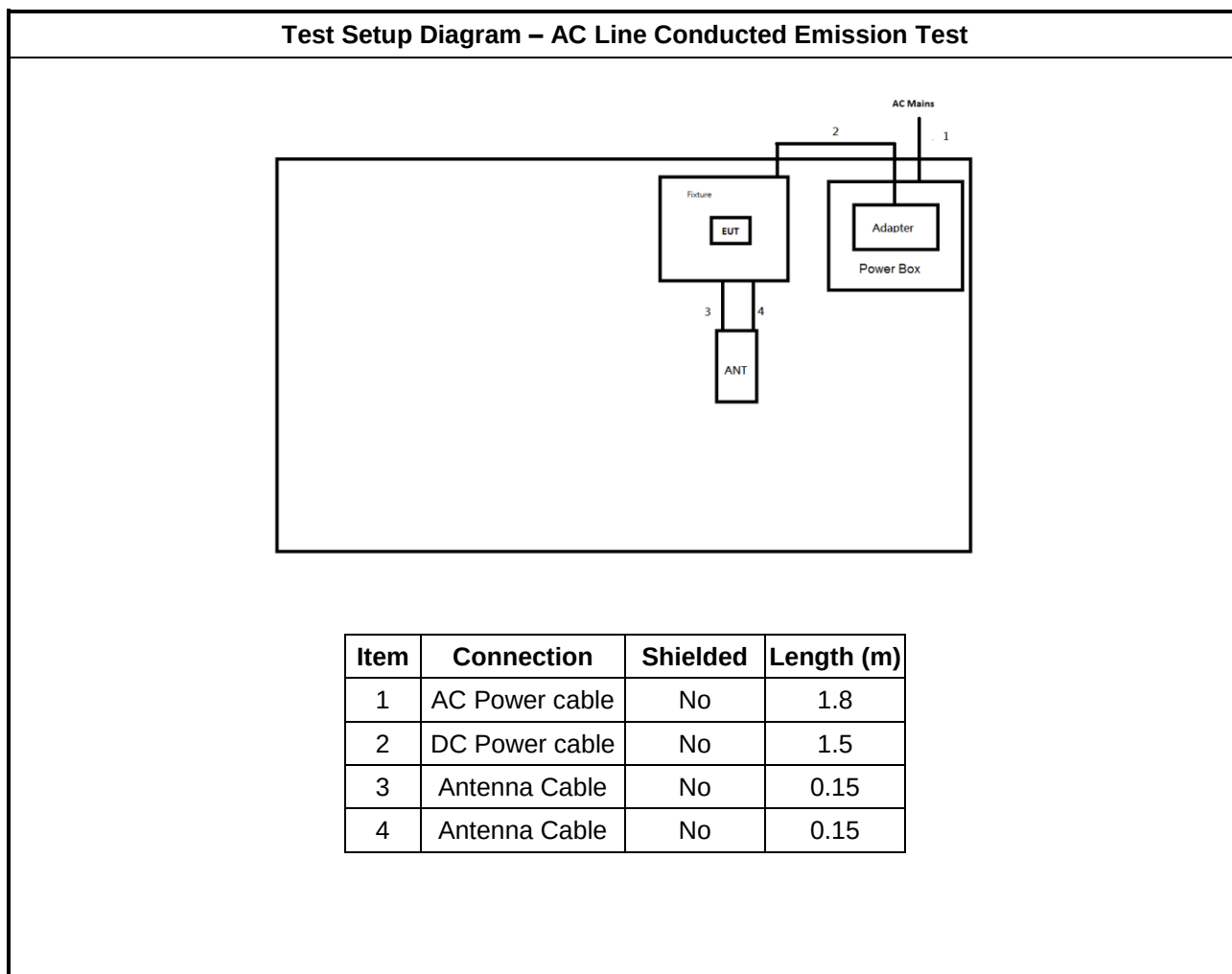
2.5 Support Equipment

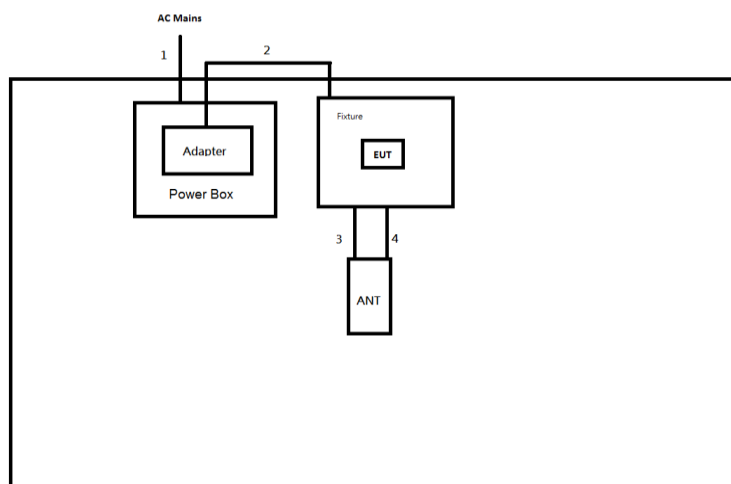
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter	APD	WB-18D12FU	-	Customer Provide
2	Fixture	Askey	STI6200-D101-Ro HS-EVB REV 1	-	Customer Provide

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for Notebook	DELL	HA65NM130	-	-
3	Fixture	Askey	STI6200-D101-Ro HS-EVB REV 1	-	Customer Provide
4	Adapter	APD	WB-18D12FU	-	Customer Provide

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter	APD	WB-18D12FU	-	Customer Provide
2	Fixture	Askey	STI6200-D101-Ro HS-EVB REV 1	-	Customer Provide

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length (m)
1	AC Power cable	No	1.8
2	DC Power cable	No	1.5
3	Antenna Cable	No	0.15
4	Antenna Cable	No	0.15

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

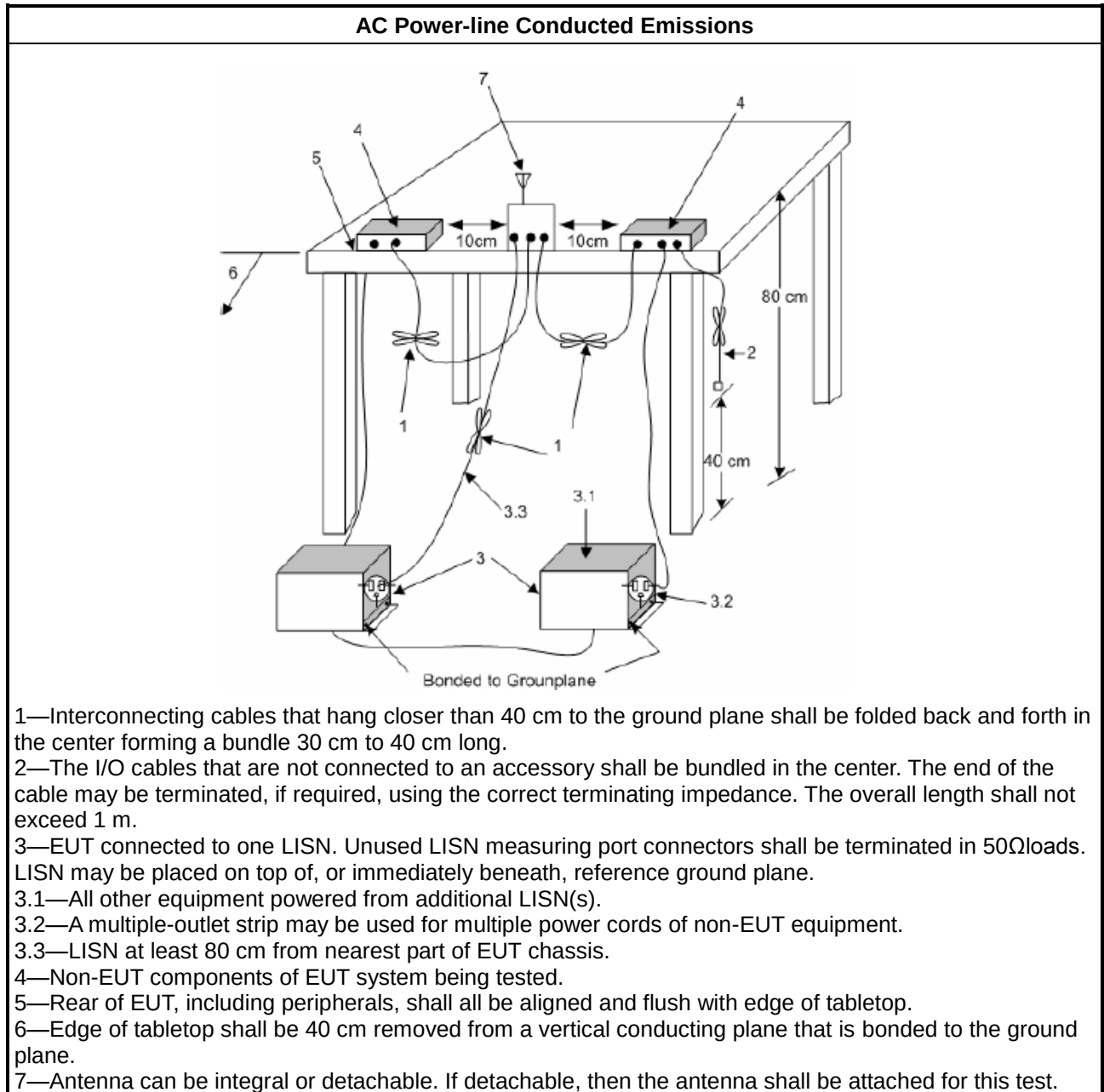
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 20dB Bandwidth and Carrier Frequency Separation

3.2.1 20dB Bandwidth and Carrier Frequency Separation Limit

20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems	
2400-2483.5 MHz Band:	
	$N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	$75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 kHz).
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

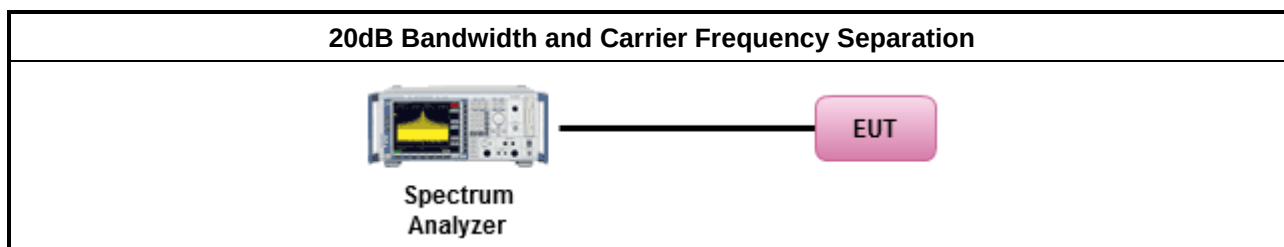
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
Refer as ANSI C63.10-2013, clause 6.9.2 for 20 dB bandwidth measurement.
Refer as ANSI C63.10-2013, clause 7.8.2 for carrier frequency separation measurement.

3.2.4 Test Setup



3.2.5 Test Result of 20dB Bandwidth

Refer as Appendix B

3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
2400-2483.5 MHz Band:	
	$N \geq 75$; Power 30dBm; EIRP 36dBm
	$75 > N \geq 15$; Power 21dBm; EIRP 27dBm
N: Number of Hopping Frequencies	

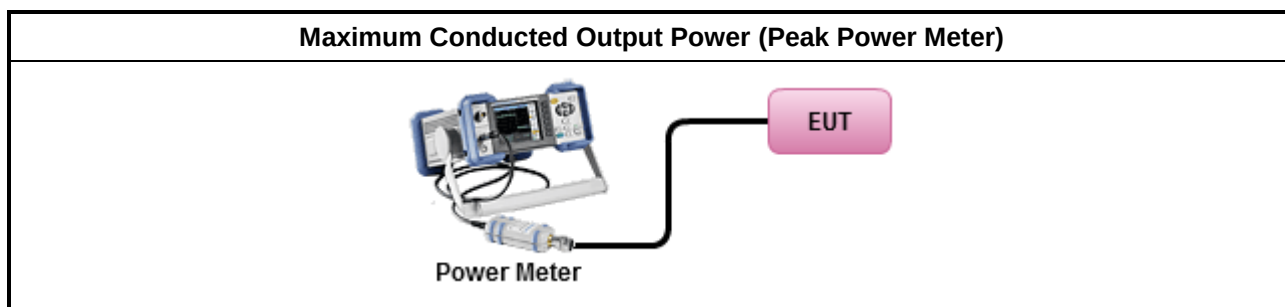
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method
Refer as ANSI C63.10-2013, clause 7.8.5 for output power measurement.

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Number of Hopping Frequencies and Hopping Bandedge

3.4.1 Number of Hopping Frequencies Limit

Number of Hopping Frequencies Limit	
2400-2483.5 MHz Band:	
	$N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	$75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 kHz).
N: Number of Hopping Frequencies; ChS : Hopping Channel Separation	

3.4.2 Hopping Bandedge Limit

Refer clause 3.6.1 and clause 3.7.1

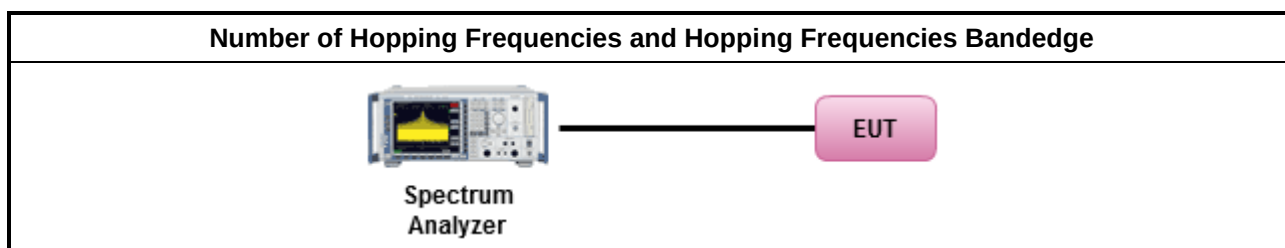
3.4.3 Measuring Instruments

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

3.4.4 Test Procedures

Test Method
Refer as ANSI C63.10-2013, clause 7.8.3 for number of hopping frequencies measurement.
Refer as ANSI C63.10-2013, clause 7.8.6 for hopping frequencies Bandedge measurement.

3.4.5 Test Setup



3.4.6 Test Result of Number of Hopping Frequencies

Refer as Appendix D

3.4.7 Test Result of Number of Hopping Frequencies Bandedge

Refer as Appendix D

3.5 Time of Occupancy (Dwell Time)

3.5.1 Time of Occupancy (Dwell Time) Limit

Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems	
2400-2483.5 MHz Band:	
	$N \geq 75$; 0.4s in $N \times 0.4$ period
	$75 > N \geq 15$; 0.4s in $N \times 0.4$ period
N: Number of Hopping Frequencies	

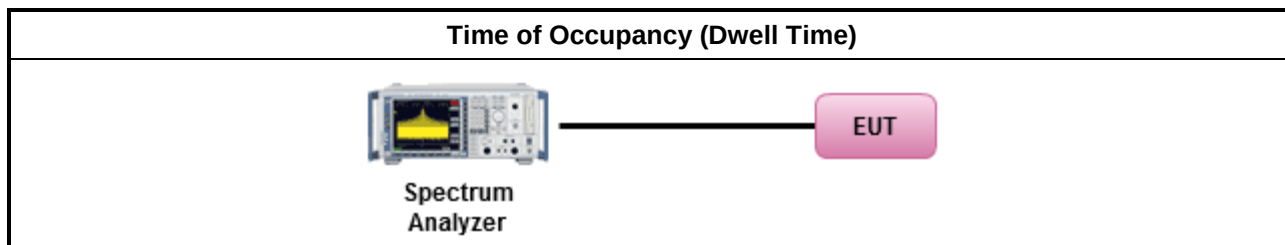
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method	
Refer as ANSI C63.10-2013, clause 7.8.4 for dwell time measurement.	
Bluetooth ACL packets can be 1, 3, or 5 time slots. Following as dwell time. Operate DH5 at maximum dwell time and maximum duty cycle.	
	The DH5 packet can cover up to 5 time slots. Operate DH5 at maximum dwell time and maximum duty cycle. A maximum length packet has duration of 5 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is $5/1600$ seconds, or 3.125ms. DH5 Packet permit maximum $1600 / 79 / 6 = 3.37$ hops per second in each channel.

3.5.4 Test Setup



3.5.5 Test Result of Time of Occupancy (Dwell Time)

Refer as Appendix E

3.6 Emissions in Non-restricted Frequency Bands

3.6.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.	

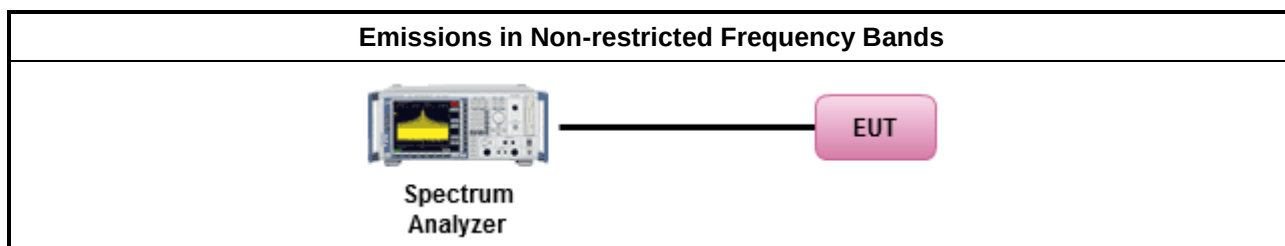
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method
Refer as ANSI C63.10-2013, clause 7.8.8 for unwanted emissions into non-restricted bands.

3.6.4 Test Setup



3.6.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix F

3.7 Emissions in Restricted Frequency Bands

3.7.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB / decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

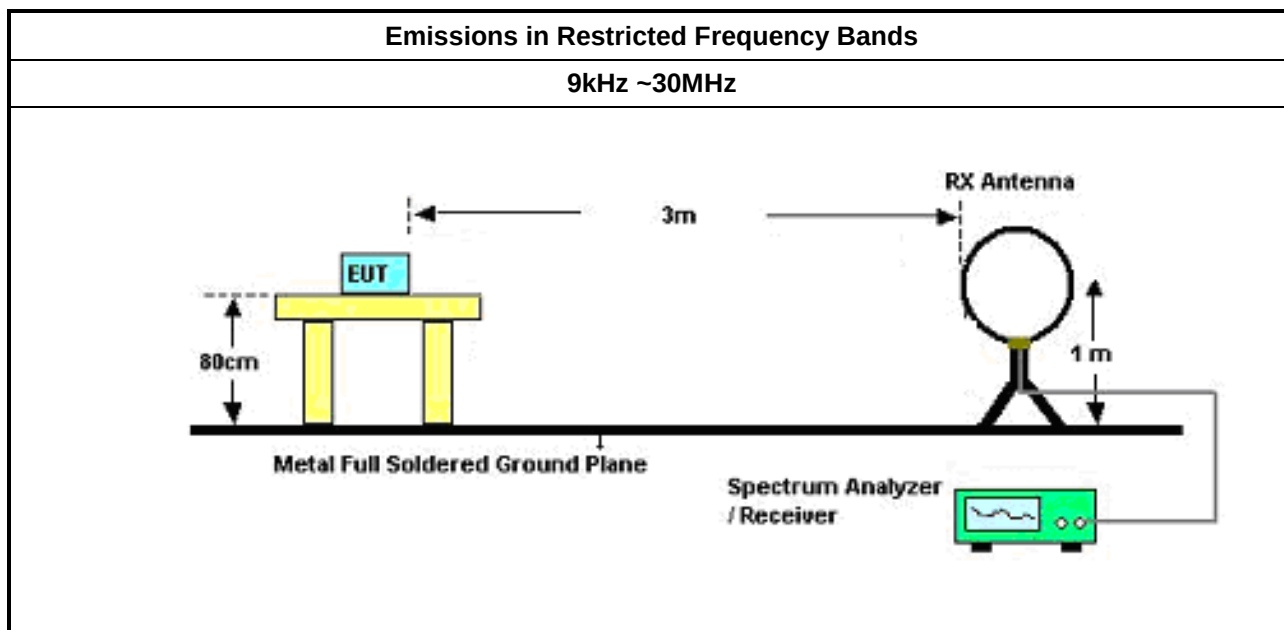
3.7.2 Measuring Instruments

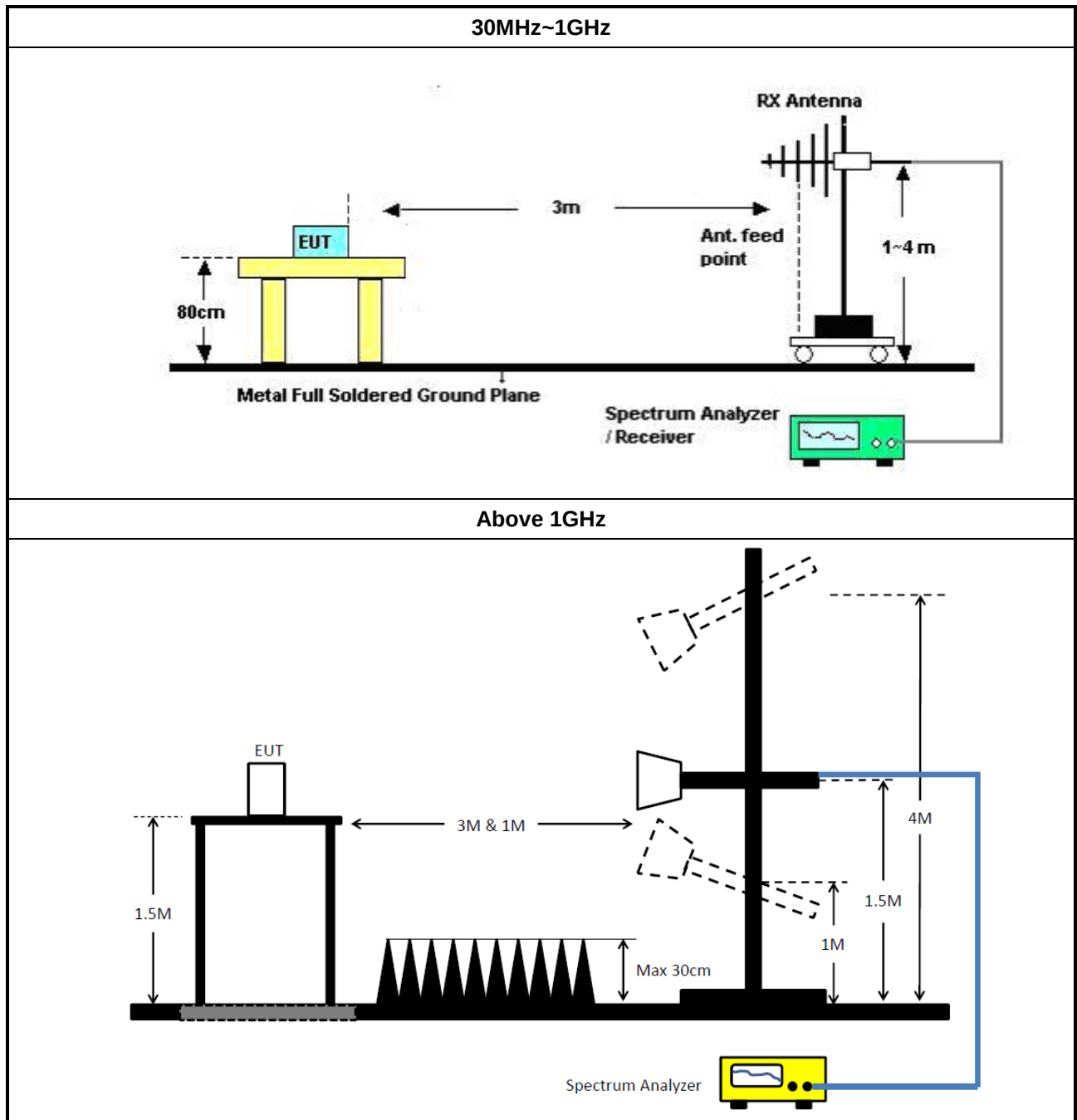
Refer a test equipment and calibration data table in this test report.

3.7.3 Test Procedures

Test Method	
The average emission levels shall be measured in [hopping 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 ANSI C63.10, clause 4.1.4.2.1 QP value.
	Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.
	Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.
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.

3.7.4 Test Setup





3.7.5 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.

3.7.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix G

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR3	102051	9kHz ~ 3.6GHz	29/May/2020	28/May/2021
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	05/Nov/2019	04/Nov/2020
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127477	9kHz ~ 30MHz	17/Feb/2020	16/Feb/2021
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	23/Sep/2019	22/Sep/2020
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	24/Sep/2019	23/Sep/2020
Software	Sporton	SENSE-EMI	V5.10.7.3	-	NCR	NCR

NCR : Non-Calibration Require

Instrument for Conducted Test

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

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	29/Aug/2019	28/Aug/2020
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	29/Aug/2019	28/Aug/2020
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	28/Feb/2020	27/Feb/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	30MHz~1GHz	25/Mar/2020	24/Mar/2021
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+80 5192/4	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

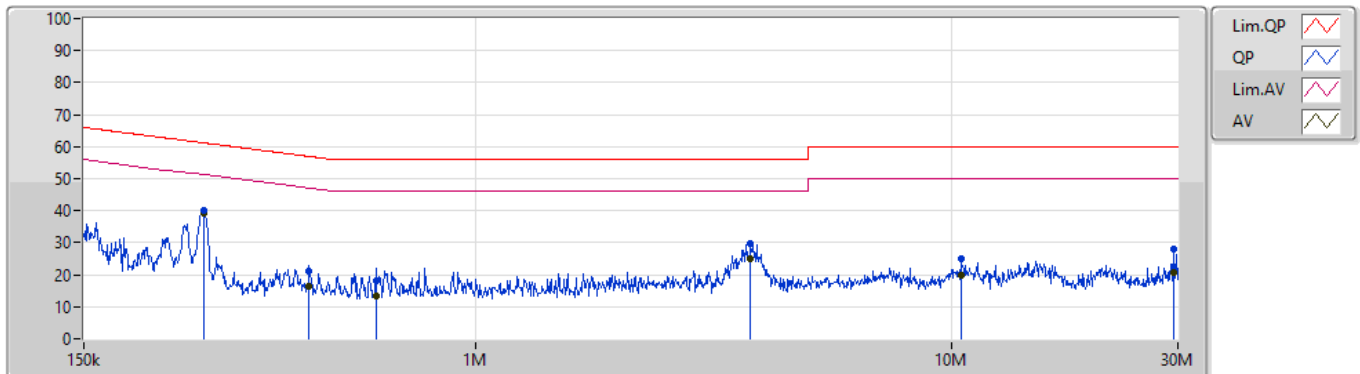
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	268.666k	40.82	51.16	-10.34	Neutral

**Mode Configure**

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	268.666k	40.12	61.16	-21.04	Line	-
Mode 1	Pass	AV	268.666k	39.28	51.16	-11.88	Line	"Worst"
Mode 1	Pass	QP	446.062k	20.93	56.96	-36.03	Line	-
Mode 1	Pass	AV	446.062k	16.38	46.96	-30.58	Line	-
Mode 1	Pass	QP	616.347k	18.09	56.00	-37.91	Line	-
Mode 1	Pass	AV	616.347k	13.52	46.00	-32.48	Line	-
Mode 1	Pass	QP	3.79M	29.72	56.00	-26.28	Line	-
Mode 1	Pass	AV	3.79M	24.84	46.00	-21.16	Line	-
Mode 1	Pass	QP	10.49M	24.82	60.00	-35.18	Line	-
Mode 1	Pass	AV	10.49M	19.88	50.00	-30.12	Line	-
Mode 1	Pass	QP	29.498M	27.91	60.00	-32.09	Line	-
Mode 1	Pass	AV	29.498M	20.75	50.00	-29.25	Line	-
Mode 1	Pass	QP	268.666k	41.78	61.16	-19.38	Neutral	-
Mode 1	Pass	AV	268.666k	40.82	51.16	-10.34	Neutral	"Worst"
Mode 1	Pass	QP	446.062k	21.07	56.96	-35.89	Neutral	-
Mode 1	Pass	AV	446.062k	19.06	46.96	-27.90	Neutral	-
Mode 1	Pass	QP	783.156k	20.26	56.00	-35.74	Neutral	-
Mode 1	Pass	AV	783.156k	15.70	46.00	-30.30	Neutral	-
Mode 1	Pass	QP	2.292M	22.81	56.00	-33.19	Neutral	-
Mode 1	Pass	AV	2.292M	17.21	46.00	-28.79	Neutral	-
Mode 1	Pass	QP	3.805M	27.22	56.00	-28.78	Neutral	-
Mode 1	Pass	AV	3.805M	23.03	46.00	-22.97	Neutral	-
Mode 1	Pass	QP	14.208M	23.87	60.00	-36.13	Neutral	-
Mode 1	Pass	AV	14.208M	19.65	50.00	-30.35	Neutral	-

Conducted Emissions at Powerline_Mode 1

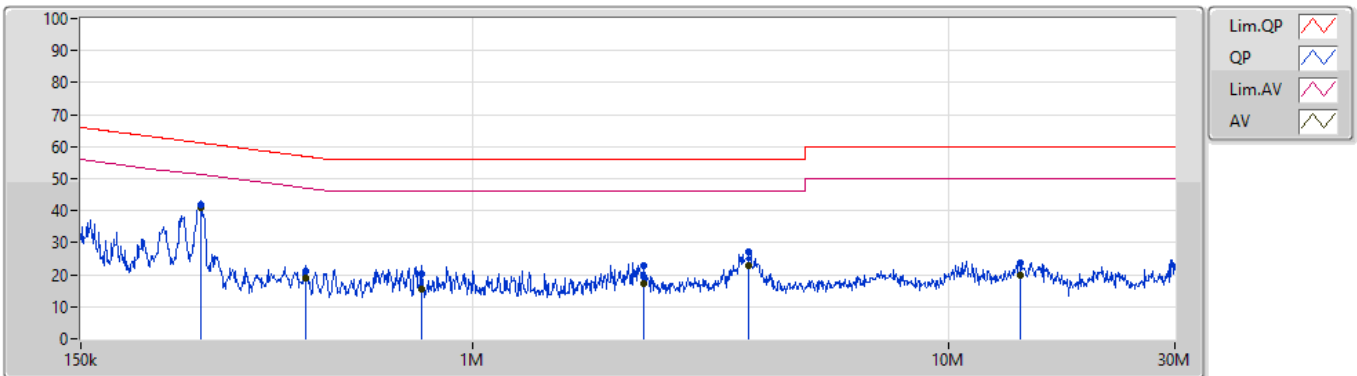
15/07/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	268.666k	40.12	61.16	-21.04	19.64	Line	-	20.48	9.65	0.12	9.87			
AV	268.666k	39.28	51.16	-11.88	19.64	Line	"Worst"	19.64	9.65	0.12	9.87			
QP	446.062k	20.93	56.96	-36.03	19.64	Line	-	1.29	9.64	0.13	9.87			
AV	446.062k	16.38	46.96	-30.58	19.64	Line	-	-3.26	9.64	0.13	9.87			
QP	616.347k	18.09	56.00	-37.91	19.63	Line	-	-1.54	9.64	0.12	9.87			
AV	616.347k	13.52	46.00	-32.48	19.63	Line	-	-6.11	9.64	0.12	9.87			
QP	3.79M	29.72	56.00	-26.28	19.72	Line	-	10.00	9.66	0.18	9.88			
AV	3.79M	24.84	46.00	-21.16	19.72	Line	-	5.12	9.66	0.18	9.88			
QP	10.49M	24.82	60.00	-35.18	19.84	Line	-	4.98	9.69	0.27	9.88			
AV	10.49M	19.88	50.00	-30.12	19.84	Line	-	0.04	9.69	0.27	9.88			
QP	29.498M	27.91	60.00	-32.09	19.84	Line	-	8.07	9.51	0.45	9.88			
AV	29.498M	20.75	50.00	-29.25	19.84	Line	-	0.91	9.51	0.45	9.88			

Conducted Emissions at Powerline_Mode 1

15/07/2020



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	268.666k	41.78	61.16	-19.38	19.63	Neutral	-	22.15	9.64	0.12	9.87			
AV	268.666k	40.82	51.16	-10.34	19.63	Neutral	"Worst"	21.19	9.64	0.12	9.87			
QP	446.062k	21.07	56.96	-35.89	19.63	Neutral	-	1.44	9.63	0.13	9.87			
AV	446.062k	19.06	46.96	-27.90	19.63	Neutral	-	-0.57	9.63	0.13	9.87			
QP	783.156k	20.26	56.00	-35.74	19.62	Neutral	-	0.64	9.63	0.12	9.87			
AV	783.156k	15.70	46.00	-30.30	19.62	Neutral	-	-3.92	9.63	0.12	9.87			
QP	2.292M	22.81	56.00	-33.19	19.67	Neutral	-	3.14	9.65	0.15	9.87			
AV	2.292M	17.21	46.00	-28.79	19.67	Neutral	-	-2.46	9.65	0.15	9.87			
QP	3.805M	27.22	56.00	-28.78	19.72	Neutral	-	7.50	9.66	0.18	9.88			
AV	3.805M	23.03	46.00	-22.97	19.72	Neutral	-	3.31	9.66	0.18	9.88			
QP	14.208M	23.87	60.00	-36.13	19.89	Neutral	-	3.98	9.71	0.30	9.88			
AV	14.208M	19.65	50.00	-30.35	19.89	Neutral	-	-0.24	9.71	0.30	9.88			

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-BR(1Mbps)	946.25k	887.556k	888KF1D	942.5k	884.558k
BT-EDR(2Mbps)	1.336M	1.214M	1M21G1D	1.331M	1.214M
BT-EDR(3Mbps)	1.334M	1.224M	1M22G1D	1.313M	1.221M

Max-N dB = Maximum 20dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 20dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

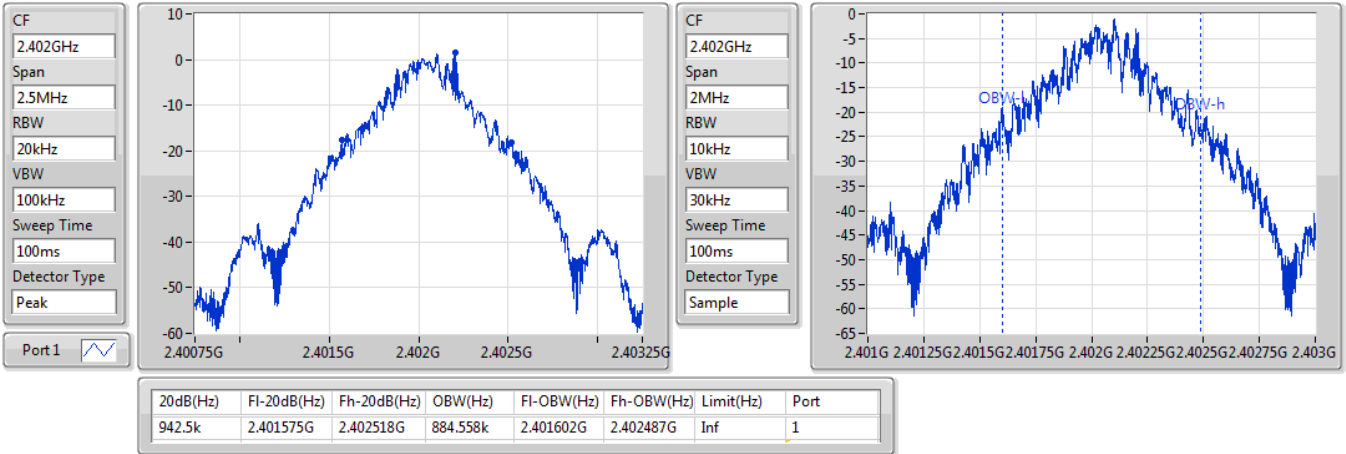
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	942.5k	884.558k
2440MHz	Pass	Inf	946.25k	886.557k
2480MHz	Pass	Inf	942.5k	887.556k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.331M	1.214M
2440MHz	Pass	Inf	1.335M	1.214M
2480MHz	Pass	Inf	1.336M	1.214M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.313M	1.221M
2440MHz	Pass	Inf	1.334M	1.221M
2480MHz	Pass	Inf	1.319M	1.224M

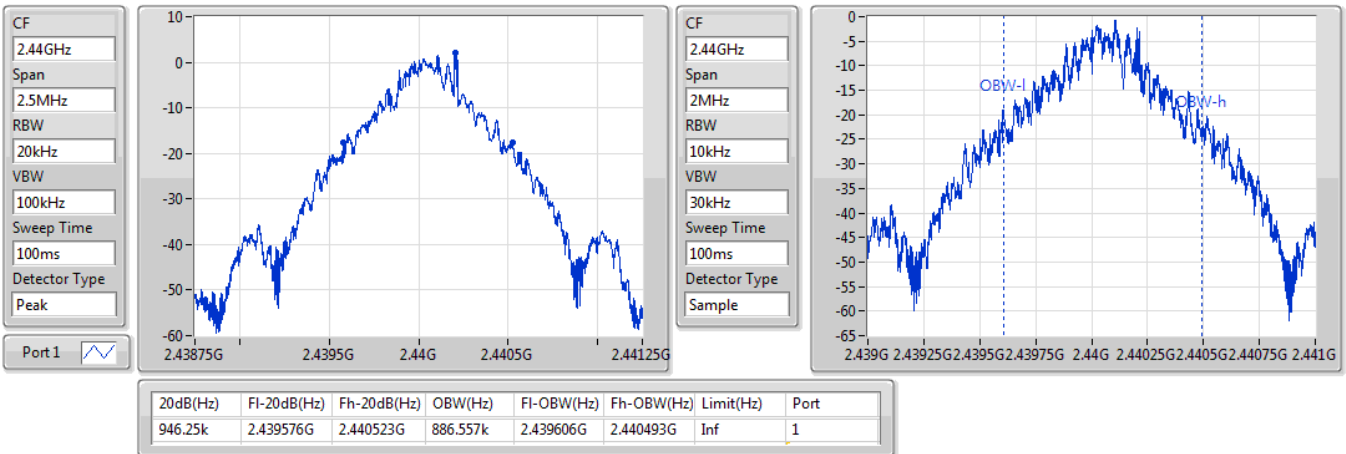
Port X-N dB = Port X 20dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

BT-BR(1Mbps)
2402MHz
EBW

08/07/2020

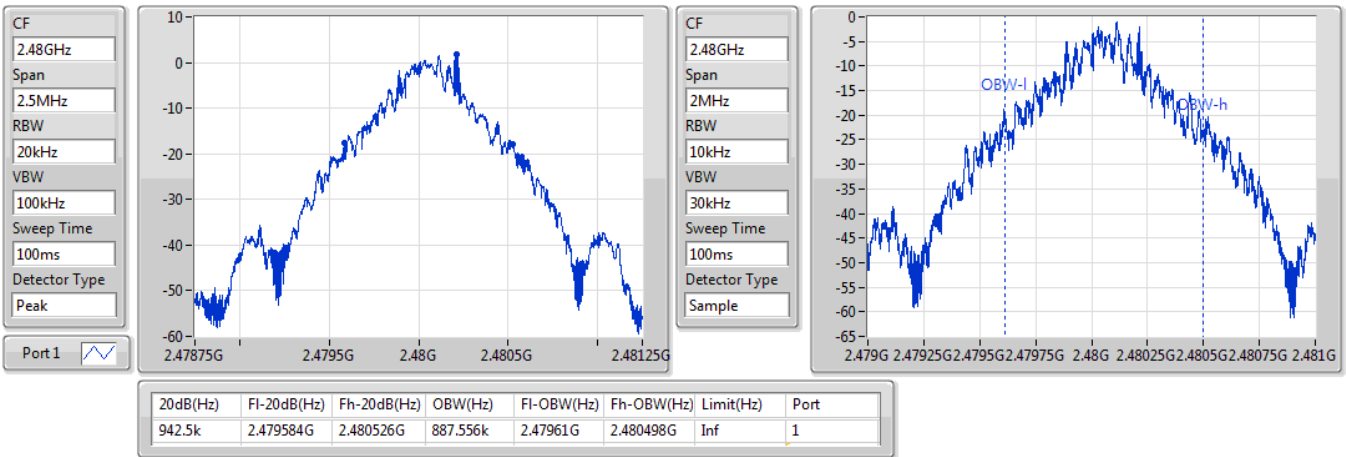

BT-BR(1Mbps)
2440MHz
EBW

08/07/2020

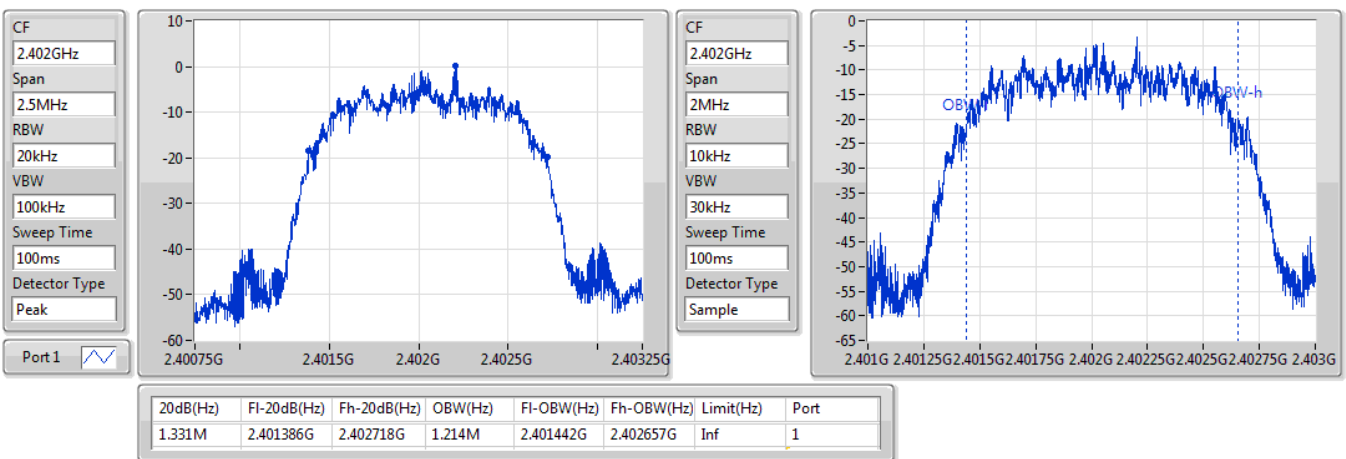


BT-BR(1Mbps)
EBW
2480MHz

08/07/2020

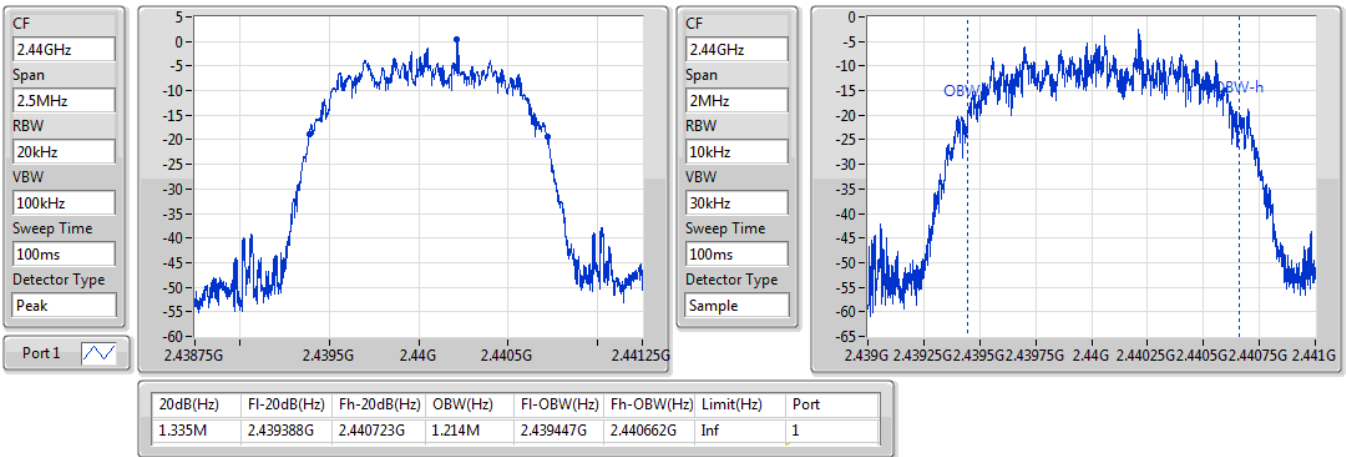

BT-EDR(2Mbps)
EBW
2402MHz

08/07/2020

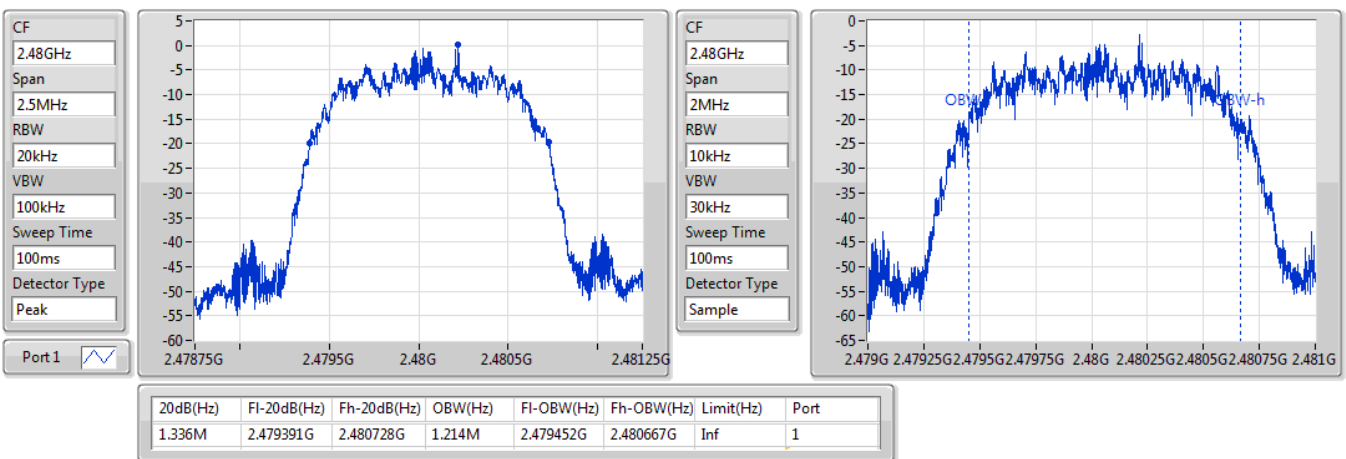


BT-EDR(2Mbps)
2440MHz
EBW

08/07/2020

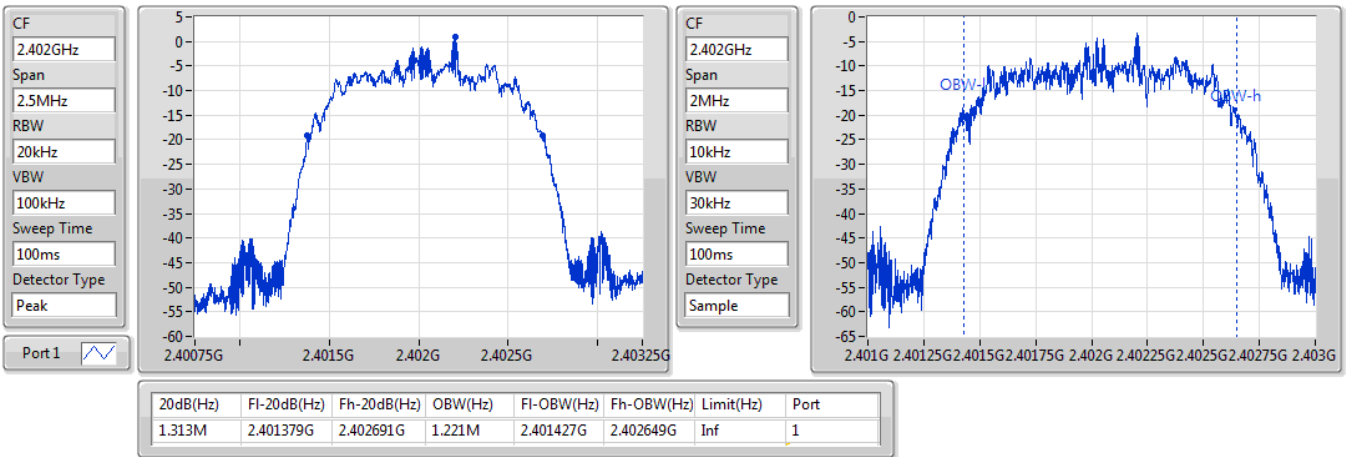

BT-EDR(2Mbps)
2480MHz
EBW

08/07/2020

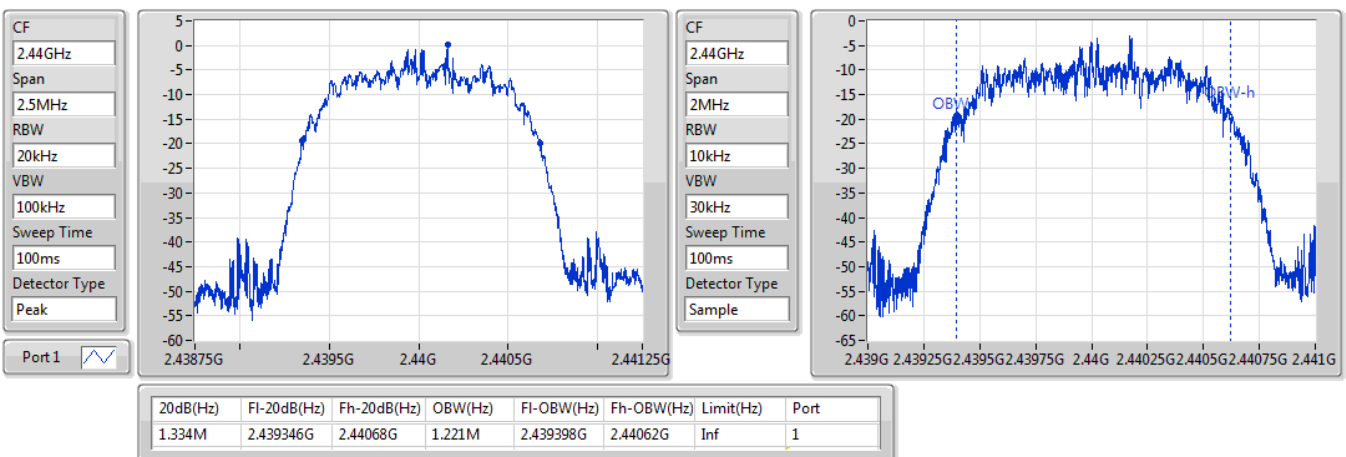


BT-EDR(3Mbps)
EBW
2402MHz

08/07/2020


BT-EDR(3Mbps)
EBW
2440MHz

08/07/2020

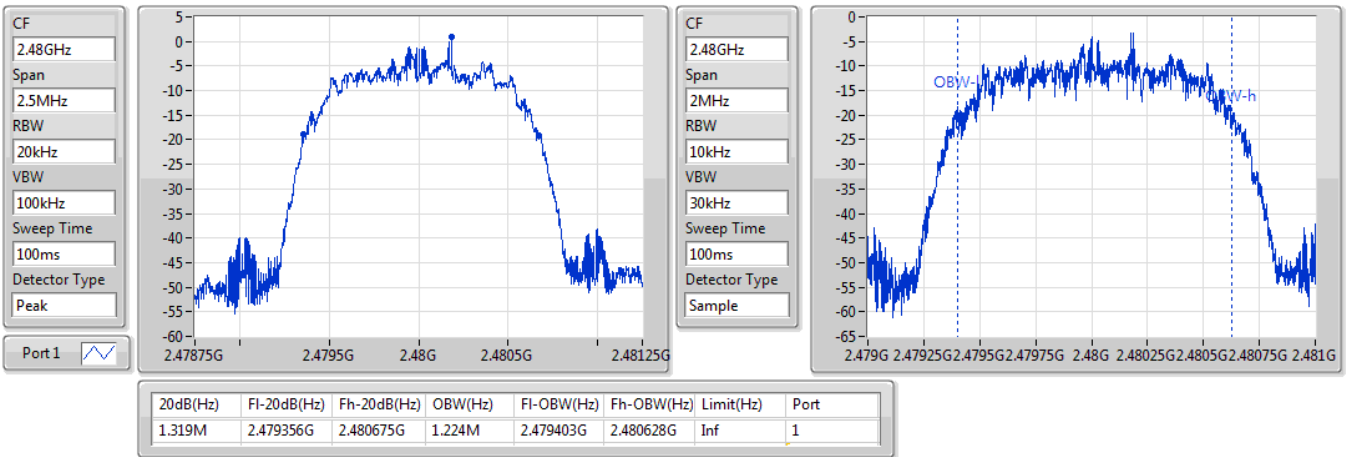


BT-EDR(3Mbps)

2480MHz

EBW

08/07/2020





Summary

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

Result

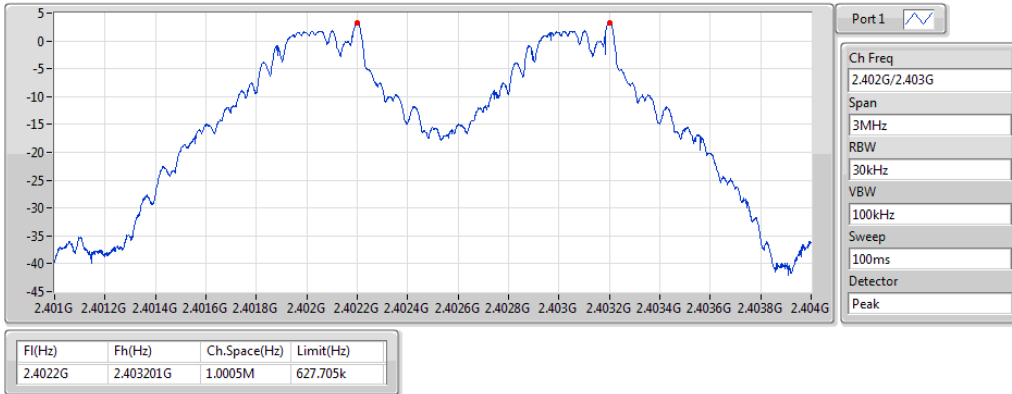
Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.4022G	2.403201G	1.0005M	627.705k
2440MHz	Pass	2.440205G	2.441205G	1.0005M	630.2025k
2480MHz	Pass	2.479209G	2.48021G	1.0005M	627.705k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.402205G	2.403205G	1.0005M	886.446k
2440MHz	Pass	2.440209G	2.441208G	999k	889.11k
2480MHz	Pass	2.479217G	2.480216G	999k	889.776k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402167G	2.403168G	1.0005M	874.458k
2440MHz	Pass	2.440172G	2.441172G	1.0005M	888.444k
2480MHz	Pass	2.479176G	2.480178G	1.002M	878.454k

BT-BR(1Mbps)

2.402G/2.403GHz

Channel Separation

08/07/2020

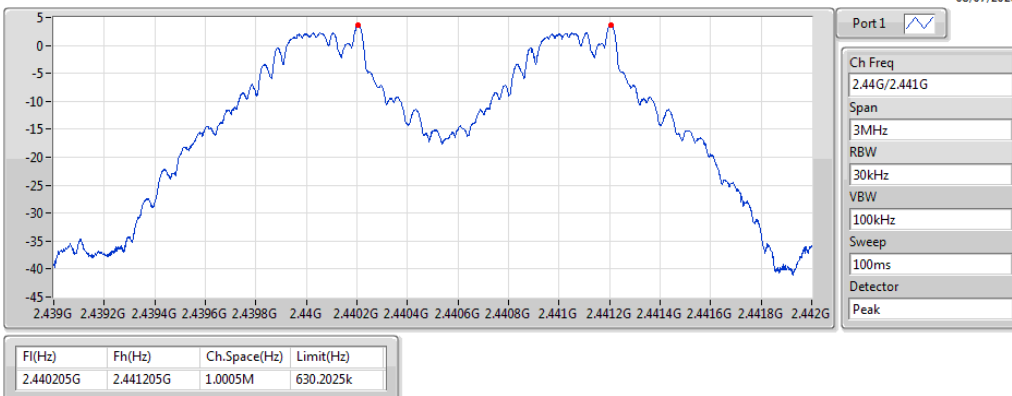


BT-BR(1Mbps)

2.44G/2.441GHz

Channel Separation

08/07/2020

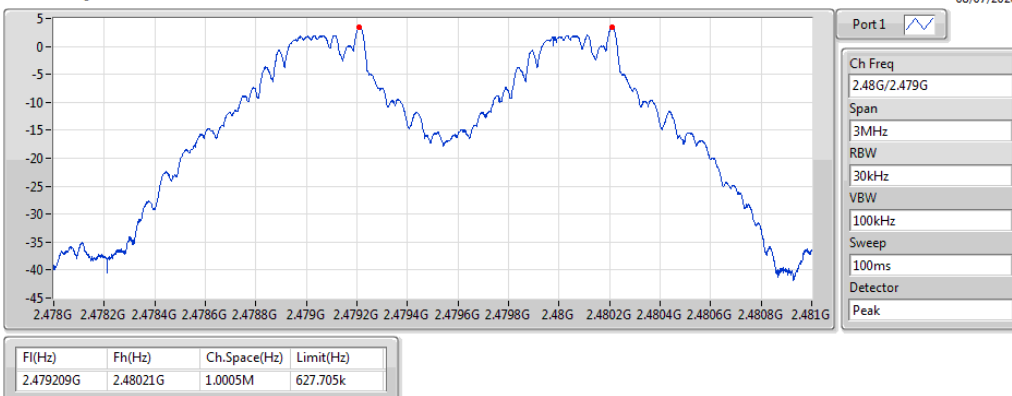


BT-BR(1Mbps)

2.48G/2.479GHz

Channel Separation

08/07/2020

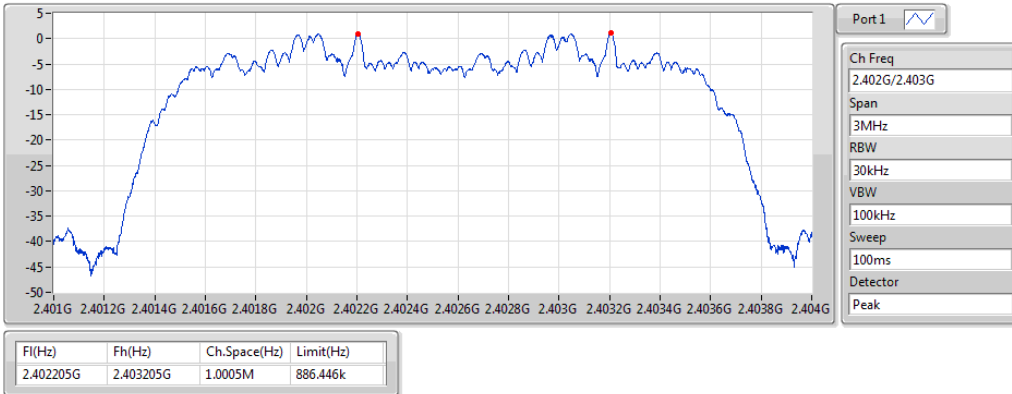


BT-EDR(2Mbps)

2.402G/2.403GHz

Channel Separation

08/07/2020

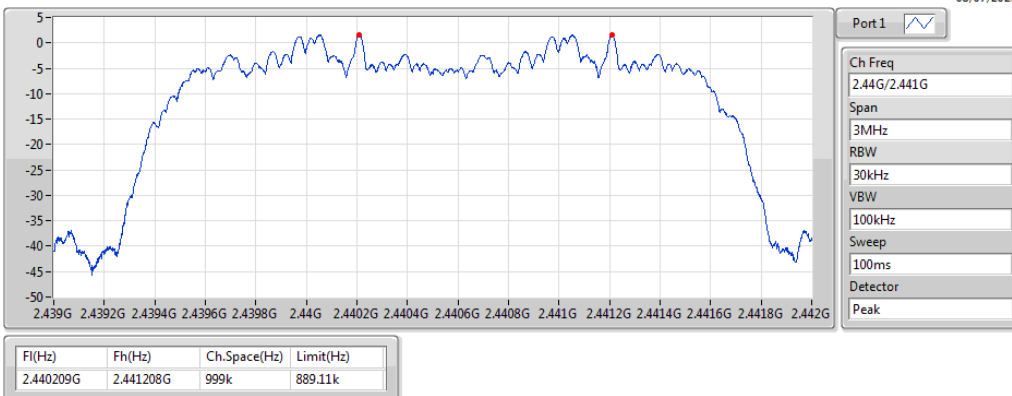


BT-EDR(2Mbps)

2.44G/2.441GHz

Channel Separation

08/07/2020

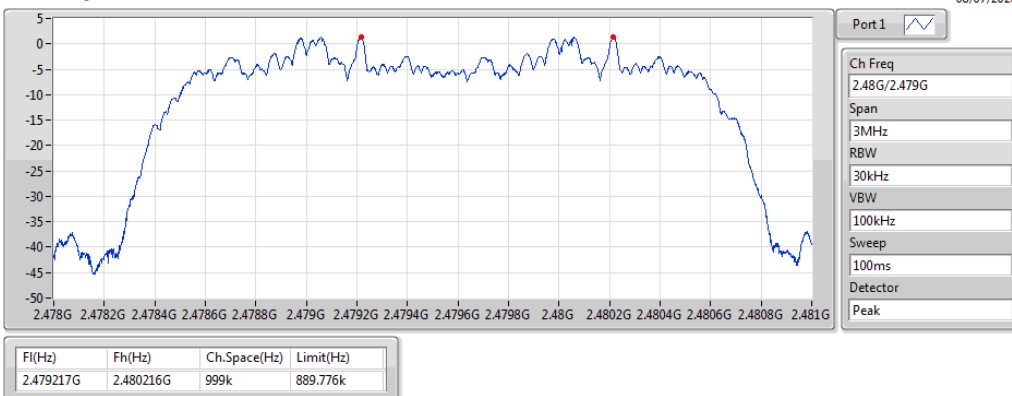


BT-EDR(2Mbps)

2.48G/2.479GHz

Channel Separation

08/07/2020

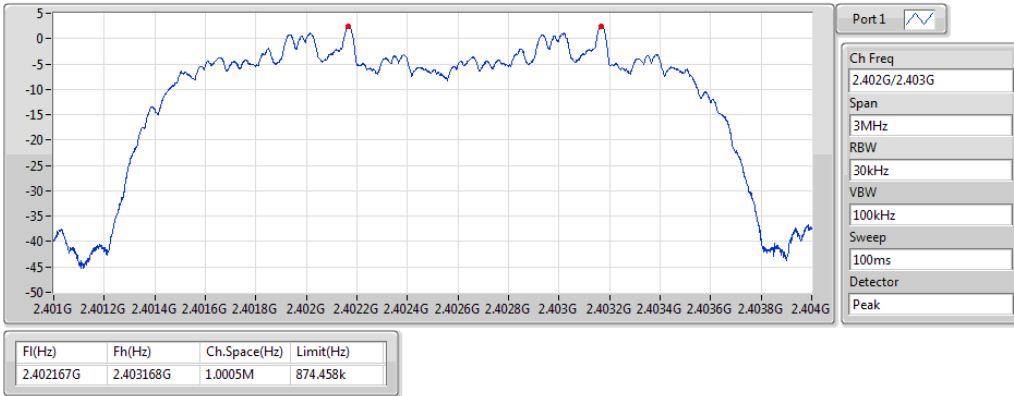


BT-EDR(3Mbps)

2.402G/2.403GHz

Channel Separation

08/07/2020

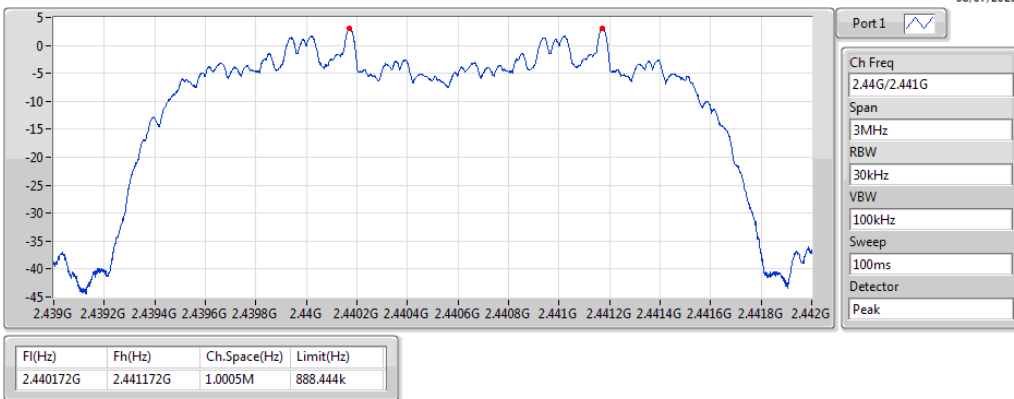


BT-EDR(3Mbps)

2.44G/2.441GHz

Channel Separation

08/07/2020

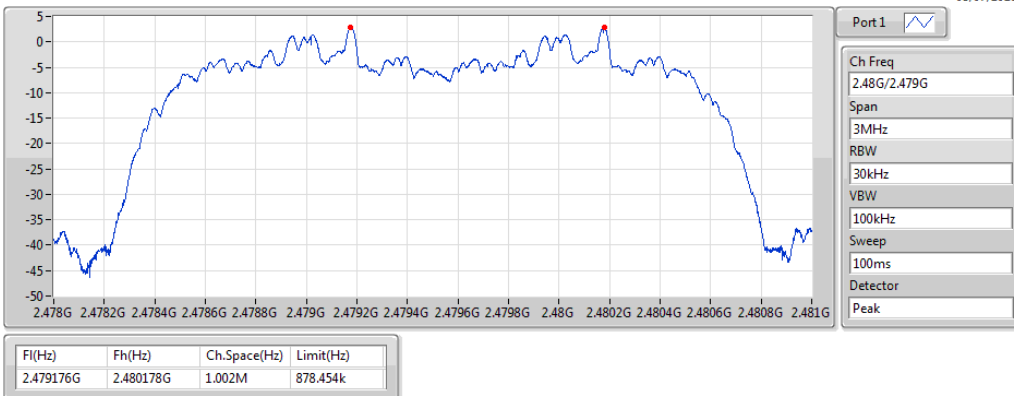


BT-EDR(3Mbps)

2.48G/2.479GHz

Channel Separation

08/07/2020





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	5.52	0.00356
BT-EDR(2Mbps)	7.21	0.00526
BT-EDR(3Mbps)	7.50	0.00562

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.74	5.17	21.00
2440MHz	Pass	2.74	5.52	21.00
2480MHz	Pass	2.74	5.29	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.74	6.87	21.00
2440MHz	Pass	2.74	7.21	21.00
2480MHz	Pass	2.74	7.11	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.74	6.99	21.00
2440MHz	Pass	2.74	7.50	21.00
2480MHz	Pass	2.74	7.30	21.00

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



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	5.00	0.00316
BT-EDR(2Mbps)	4.49	0.00281
BT-EDR(3Mbps)	4.65	0.00292

**Result**

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	2.74	4.62	21.00
2440MHz	Pass	2.74	5.00	21.00
2480MHz	Pass	2.74	4.81	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	2.74	4.07	21.00
2440MHz	Pass	2.74	4.49	21.00
2480MHz	Pass	2.74	4.37	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	2.74	3.82	21.00
2440MHz	Pass	2.74	4.65	21.00
2480MHz	Pass	2.74	4.47	21.00

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

Summary

Mode	Max-Hop No
2.4-2.4835GHz	-
BT-BR(1Mbps)	79
BT-EDR(2Mbps)	79
BT-EDR(3Mbps)	79

Result

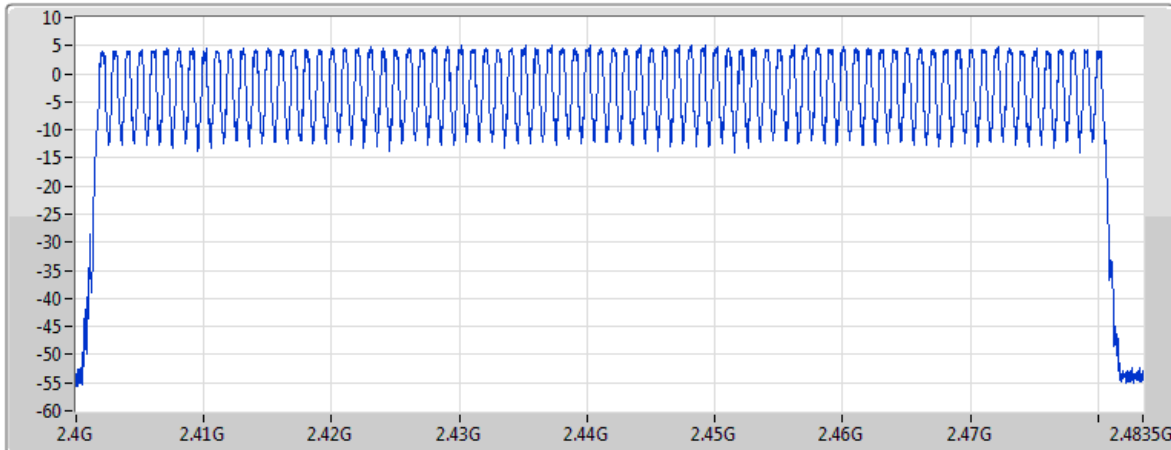
Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2440MHz	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2440MHz	Pass	79	15

BT-BR(1Mbps)

2440MHz

Hopping Ch

08/07/2020



Port 1

Hopping No

79

Span

83.5MHz

RBW

100kHz

VBW

300kHz

Sweep

200ms

Detector

Peak

Hopping No

79

Limit

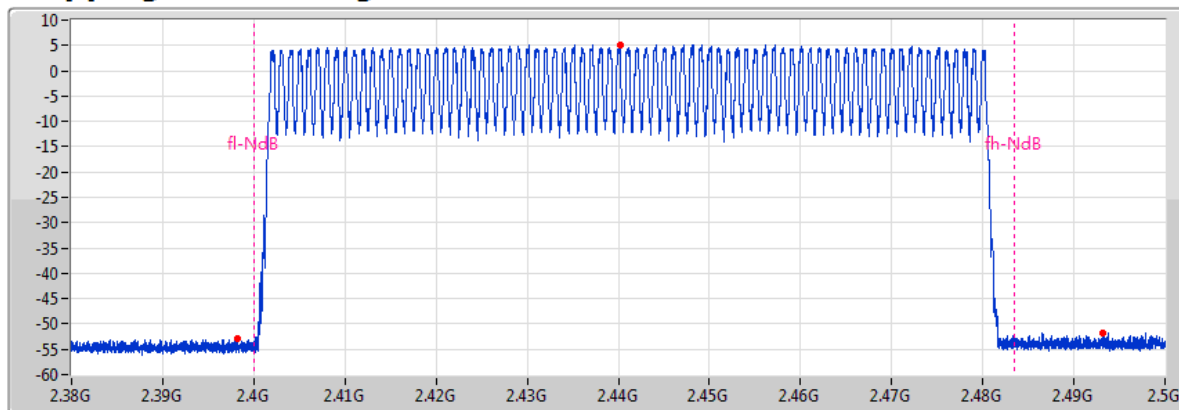
15

BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

08/07/2020



Port 1

Span

120MHz

RBW

100kHz

VBW

300kHz

Sweep

200ms

Detector

Peak

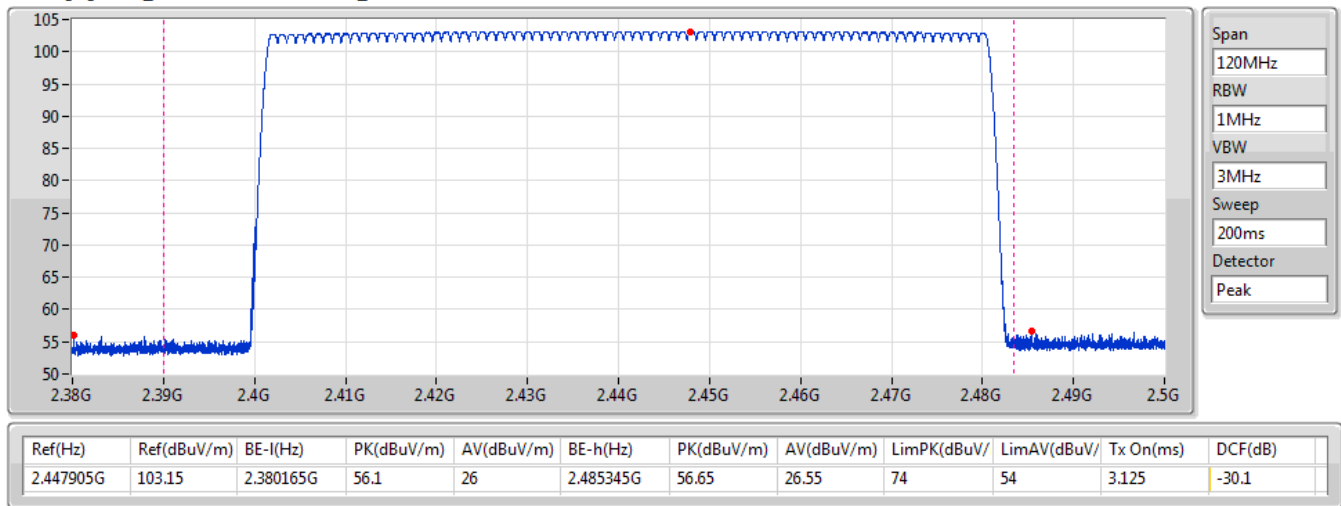
Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-14.92	2.44021G	5.08	2.39815G	-52.9	2.49313G	-51.78

BT-BR(1Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

08/07/2020

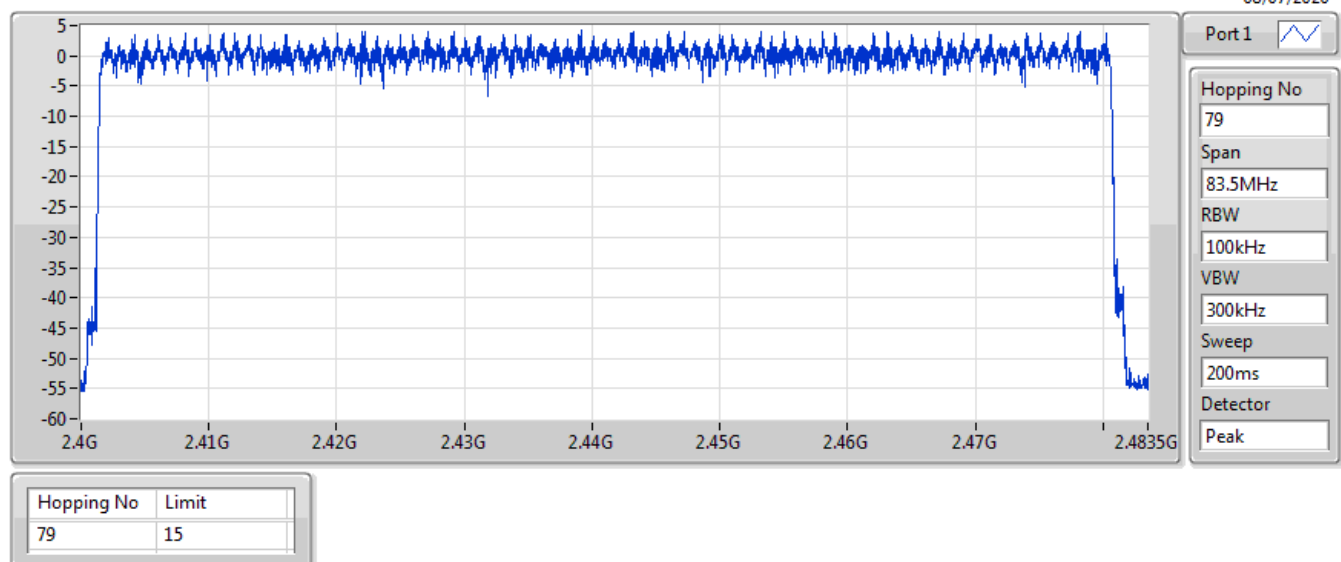


BT-EDR(2Mbps)

2440MHz

Hopping Ch

08/07/2020

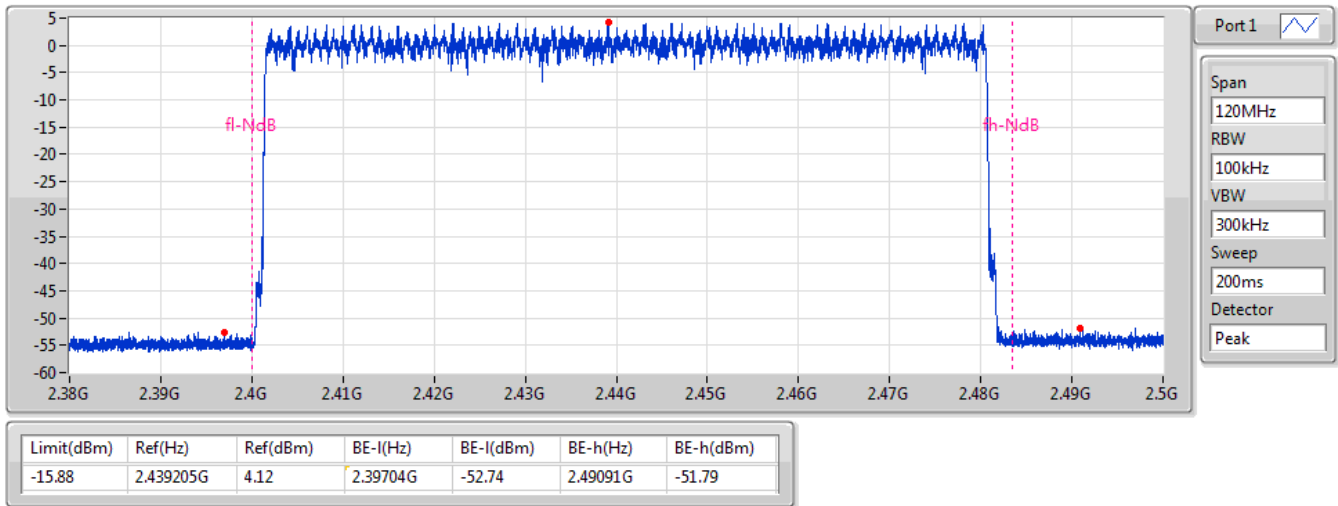


BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Non-restricted Band)

08/07/2020

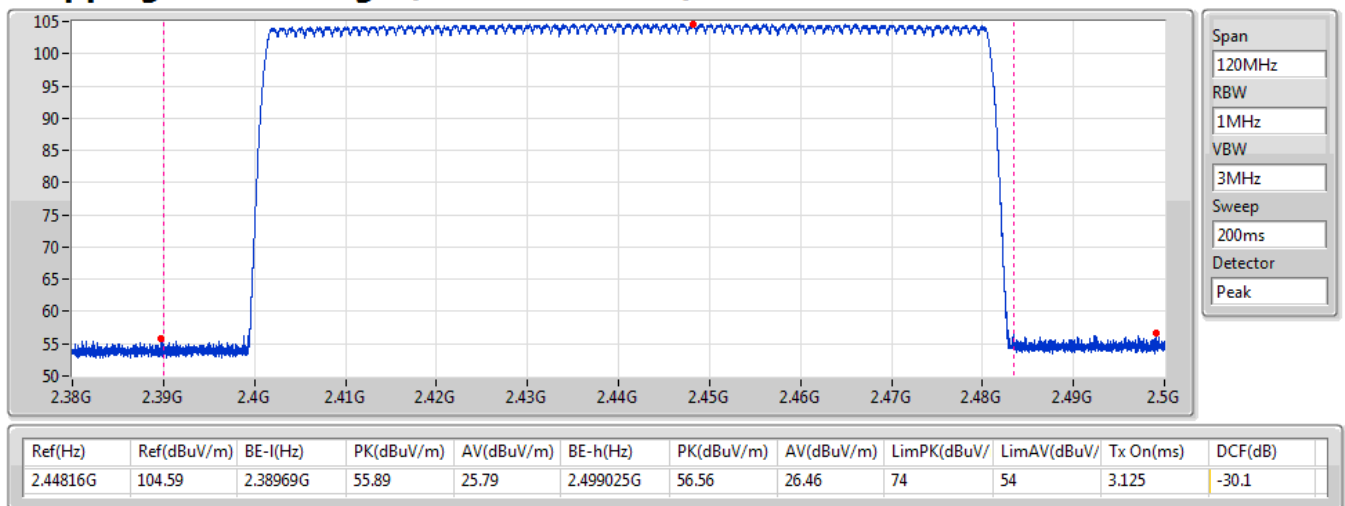


BT-EDR(2Mbps)

2440MHz

Hopping Ch Bandedge (Restricted Band)

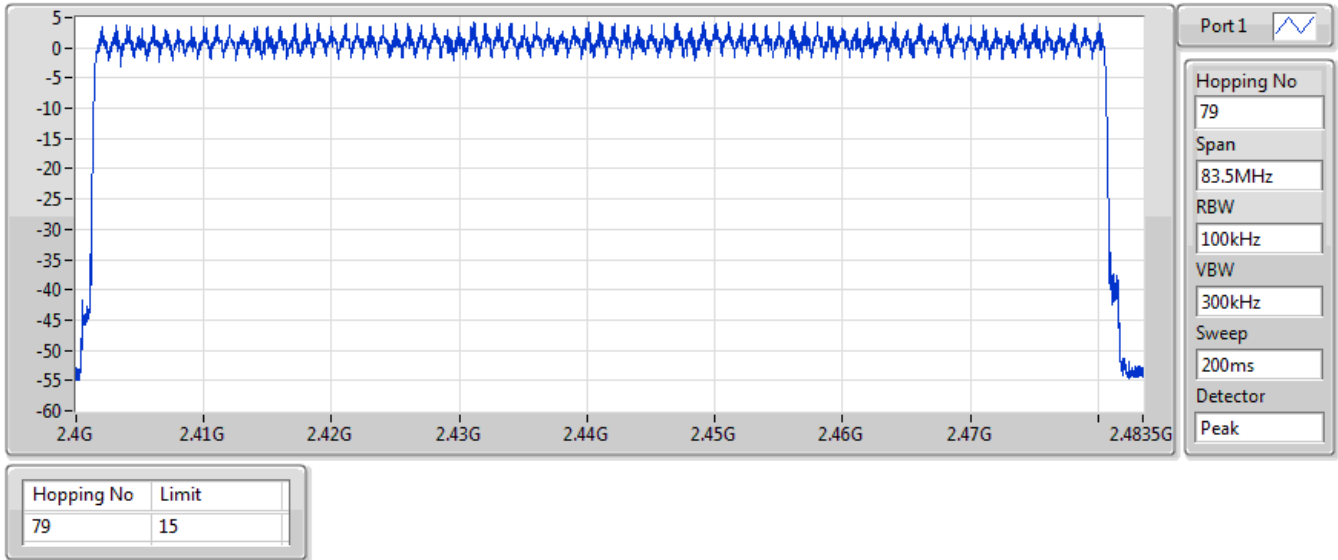
08/07/2020



BT-EDR(3Mbps) 2440MHz

Hopping Ch

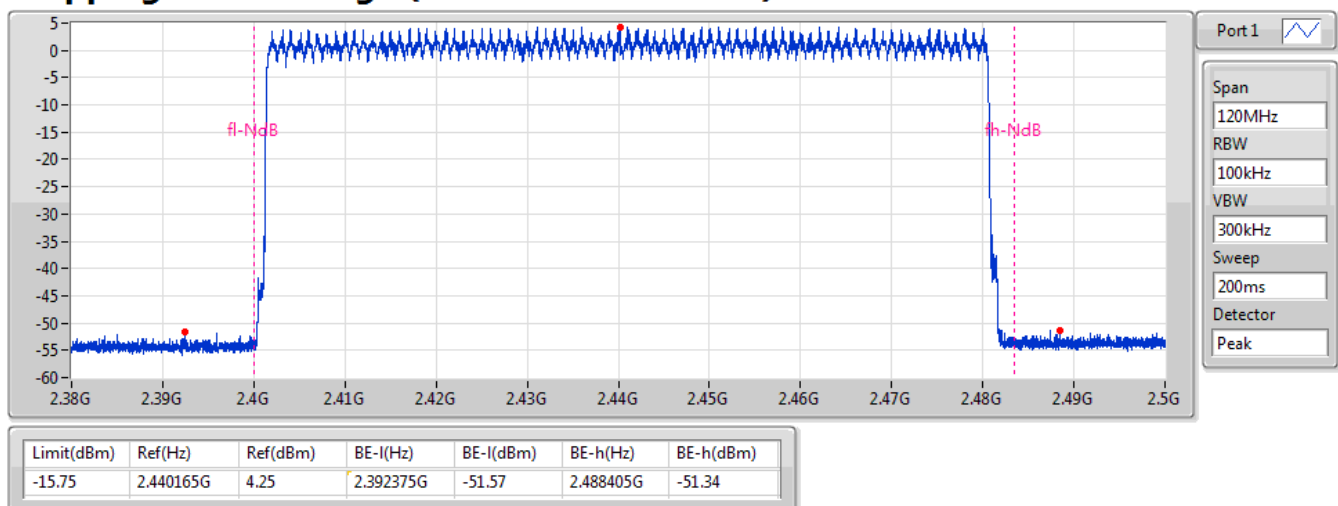
08/07/2020



BT-EDR(3Mbps) 2440MHz

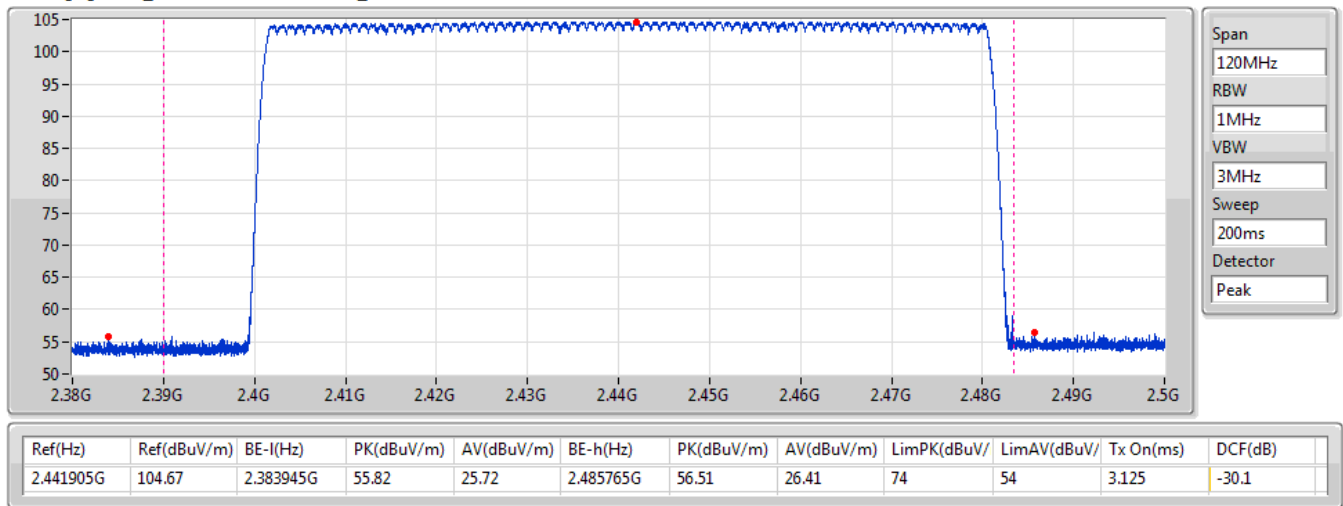
Hopping Ch Bandedge (Non-restricted Band)

08/07/2020



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

08/07/2020





Summary

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	311.56515m
BT-EDR(2Mbps)	311.805m
BT-EDR(3Mbps)	311.99155m

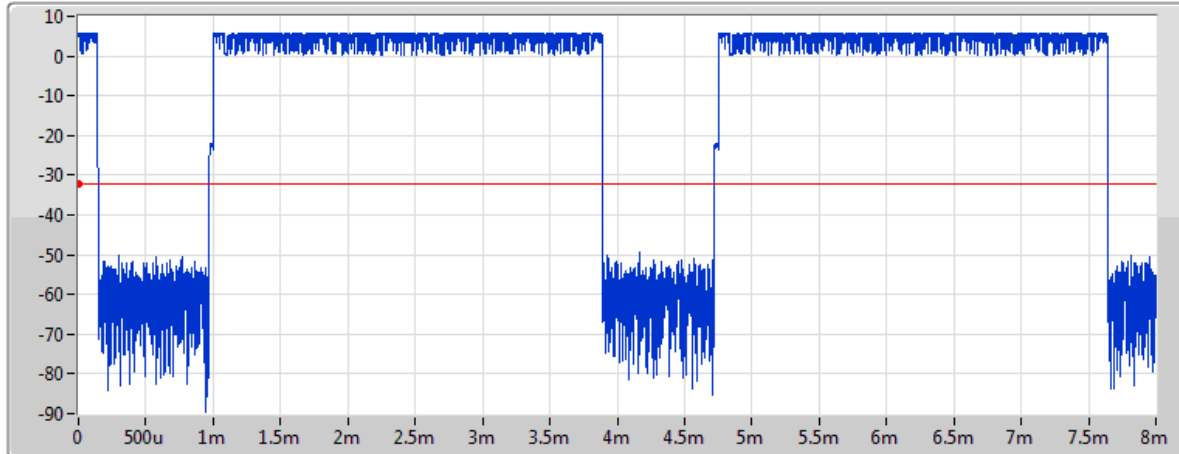
Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	311.56515m	400m	2.92275m
BT-EDR(2Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	311.805m	400m	2.925m
BT-EDR(3Mbps)	-	-	-	-	-
2440MHz	Pass	31.6	311.99155m	400m	2.92675m

BT-BR(1Mbps)

2440MHz

08/07/2020



Port1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.92275ms

non AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	311.56515m	400m	2.92275m

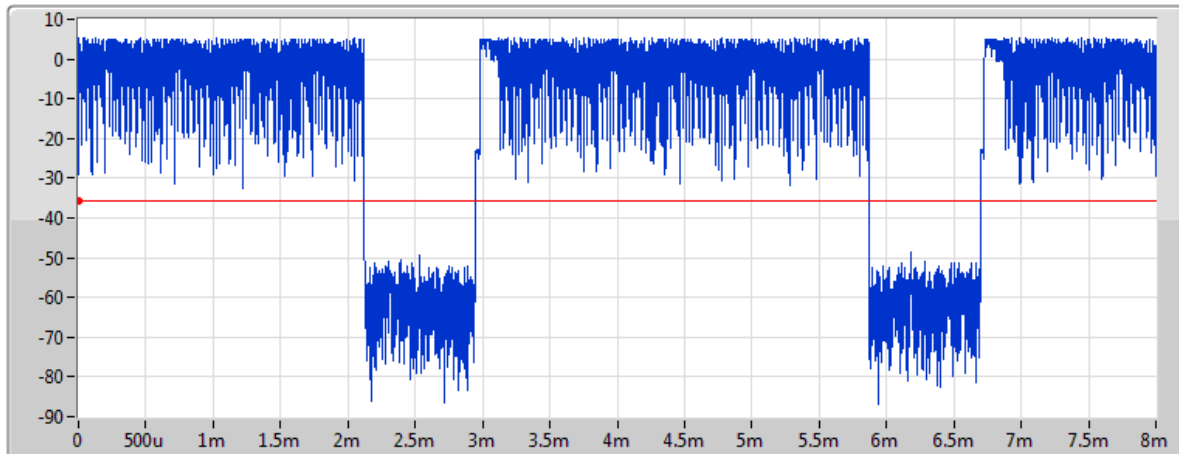
AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	155.782575m	400m	2.92275m

BT-EDR(2Mbps)

2440MHz

08/07/2020



Port1 

Ch Freq
2.44GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

TX Time
2.925ms

non AFH Mode

Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	311.805m	400m	2.925m

AFH Mode

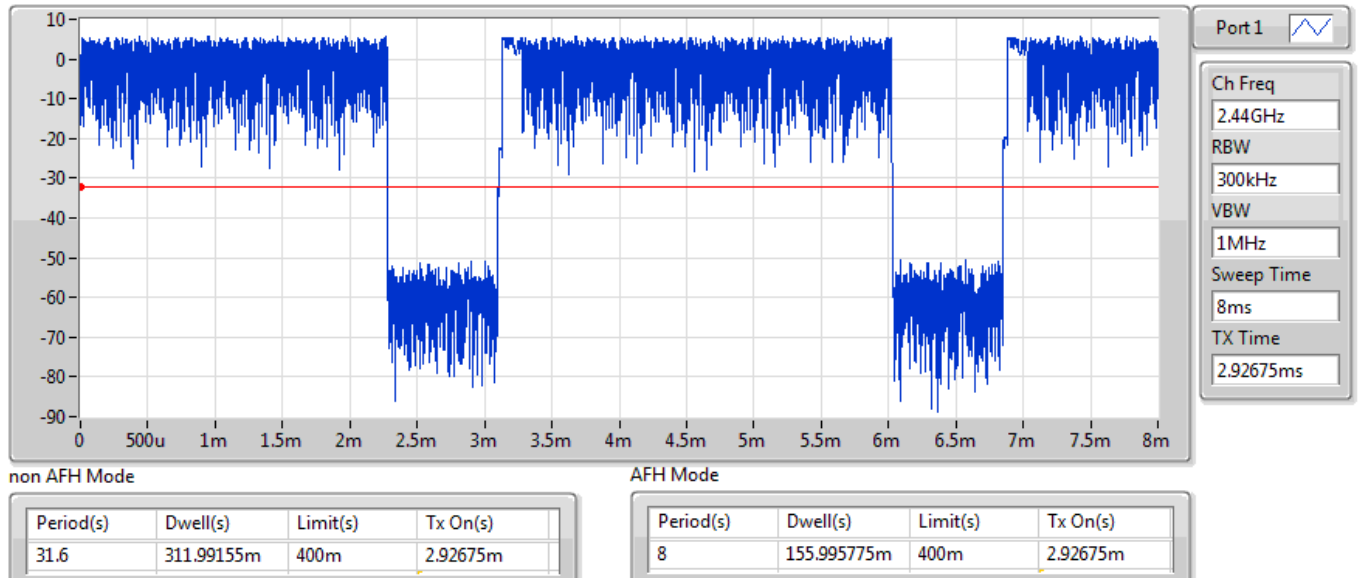
Period(s)	Dwell(s)	Limit(s)	Tx On(s)
8	155.9025m	400m	2.925m

BT-EDR(3Mbps)

2440MHz

Dwell

08/07/2020



**Summary**

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.44008G	4.65	-15.35	2.14911G	-54.10	2.39832G	-53.16	2.4835G	-53.92	2.50076G	-51.68	23.23121G	-41.24	1
BT-EDR(2Mbps)	Pass	2.40192G	2.26	-17.74	1.86888G	-54.94	2.39956G	-52.35	2.4G	-53.92	2.48606G	-52.90	23.32682G	-41.57	1
BT-EDR(3Mbps)	Pass	2.47991G	3.44	-16.56	935.63M	-54.31	2.39265G	-53.96	2.4835G	-53.04	2.48752G	-52.62	24.60069G	-41.41	1

Result

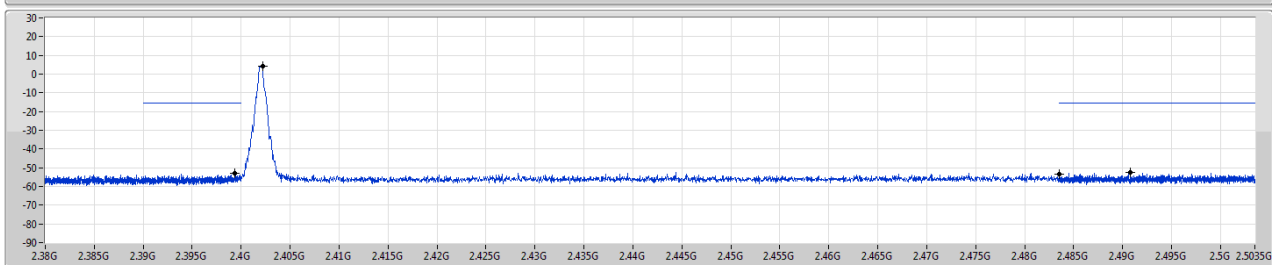
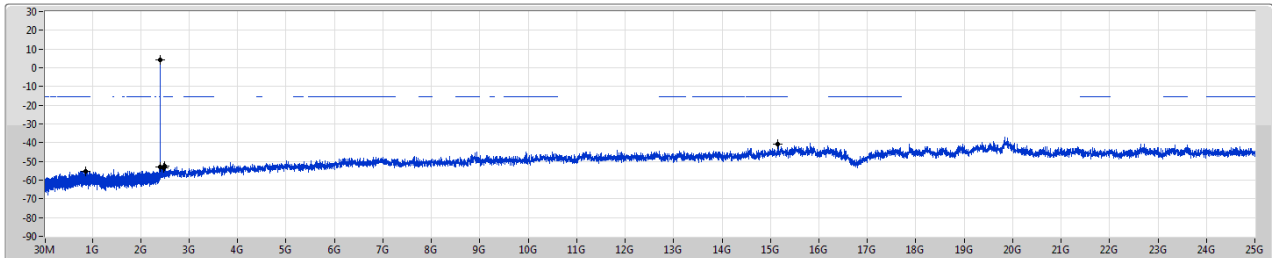
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40217G	4.30	-15.70	868.36M	-55.22	2.39931G	-52.89	2.4835G	-53.57	2.49077G	-52.33	15.14372G	-40.59	1
2440MHz	Pass	2.44008G	4.65	-15.35	2.14911G	-54.10	2.39832G	-53.16	2.4835G	-53.92	2.50076G	-51.68	23.23121G	-41.24	1
2480MHz	Pass	2.48024G	4.69	-15.31	2.12738G	-54.79	2.3981G	-52.52	2.4G	-56.09	2.48467G	-51.77	24.43478G	-42.19	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40192G	2.26	-17.74	1.86888G	-54.94	2.39956G	-52.35	2.4G	-53.92	2.48606G	-52.90	23.32682G	-41.57	1
2440MHz	Pass	2.44008G	2.77	-17.23	2.16762G	-54.07	2.39464G	-52.63	2.4835G	-55.07	2.49814G	-52.66	23.23684G	-40.51	1
2480MHz	Pass	2.48012G	3.08	-16.92	2.15205G	-55.09	2.39905G	-53.66	2.4835G	-54.87	2.48515G	-52.50	24.88471G	-40.37	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.40217G	3.76	-16.24	2.1215G	-55.30	2.39996G	-52.80	2.4G	-54.18	2.48644G	-52.65	23.25933G	-41.66	1
2440MHz	Pass	2.43991G	3.55	-16.45	2.15793G	-55.26	2.39365G	-53.16	2.4835G	-55.70	2.49064G	-52.69	15.13247G	-41.94	1
2480MHz	Pass	2.47991G	3.44	-16.56	935.63M	-54.31	2.39265G	-53.96	2.4835G	-53.04	2.48752G	-52.62	24.60069G	-41.41	1

BT-BR(1Mbps)

2402MHz

CSE NdB

08/07/2020



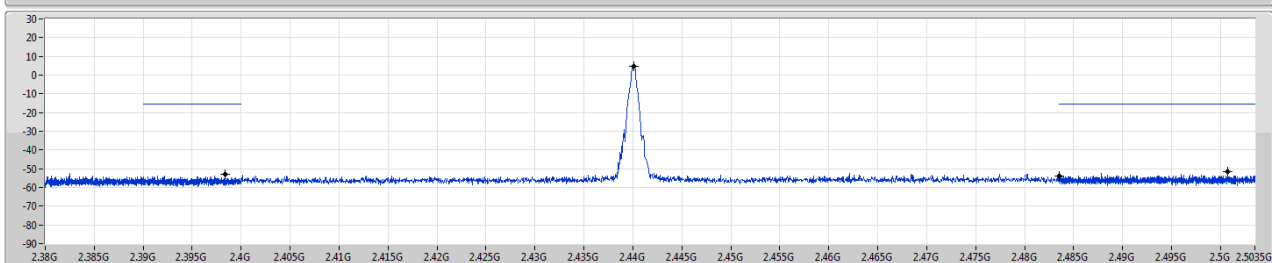
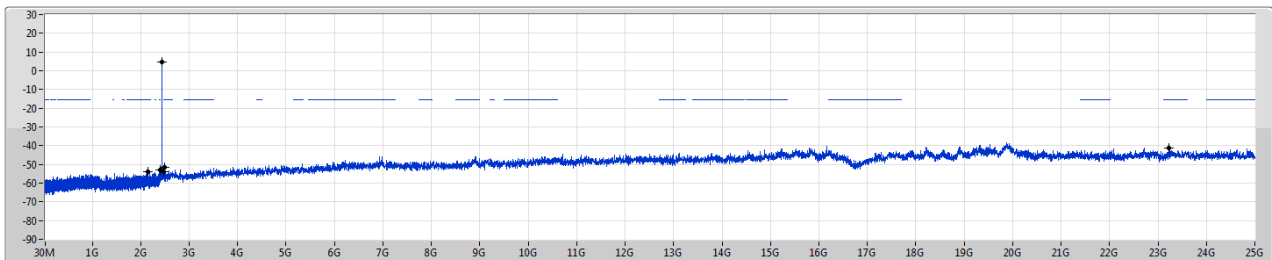
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40217G	4.30	-15.70	868.36M	-55.22	2.39931G	-52.89	2.4835G	-53.57	2.49077G	-52.33	15.14372G	-40.59	1

BT-BR(1Mbps)

2440MHz

CSE NdB

08/07/2020



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
2.44008G	4.65	-15.35	2.14911G	-54.10	2.39832G	-53.16	2.4835G	-53.92	2.50076G	-51.68	23.23121G	-41.24	1

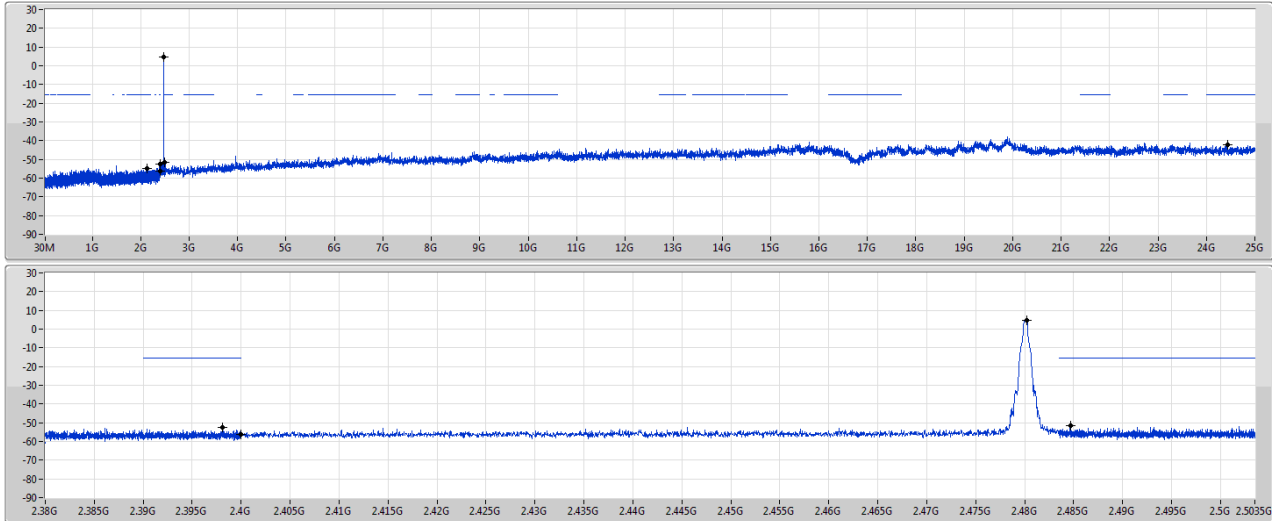
BT-BR(1Mbps)

2480MHz

CSE NdB

08/07/2020

Port 1



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)	Freq(Hz)	Level(dBm)	Port
2.48024G	4.69	-15.31	2.12738G	-54.79	2.3981G	-52.52	2.4G	-56.09	2.48467G	-51.77	2.43478G	-42.19	1

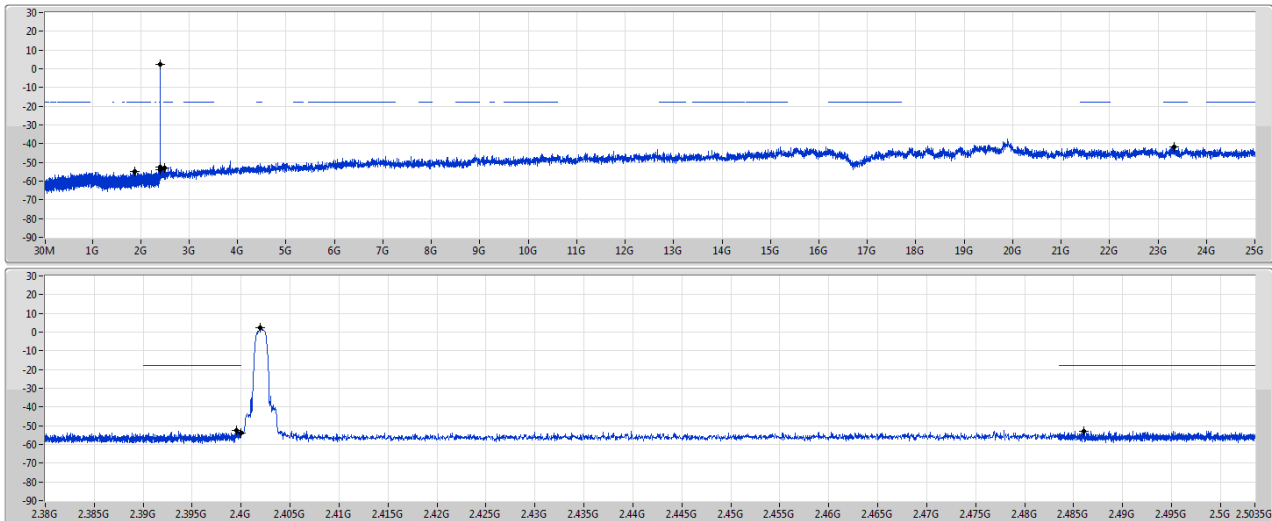
BT-EDR(2Mbps)

2402MHz

CSE NdB

08/07/2020

Port 1



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)	Freq(Hz)	Level(dBm)	Port
2.40192G	2.26	-17.74	1.86888G	-54.94	2.39956G	-52.35	2.4G	-53.92	2.48606G	-52.90	2.32682G	-41.57	1

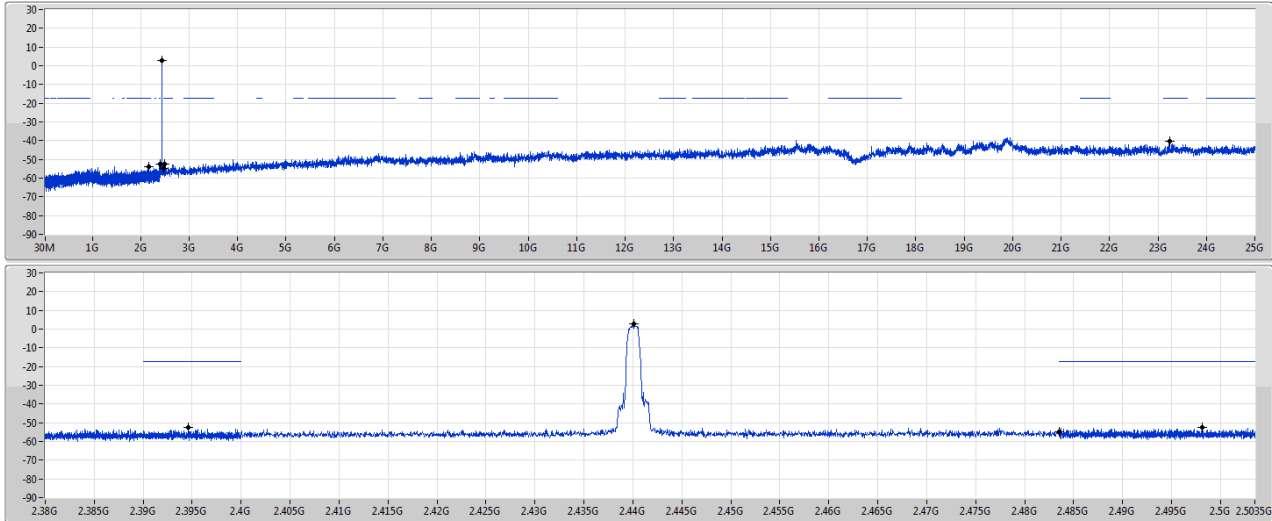
BT-EDR(2Mbps)

2440MHz

CSE NdB

08/07/2020

Port 1



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)	Freq(Hz)	Level(dBm)	Port
2.44008G	2.77	-17.23	2.16762G	-54.07	2.39464G	-52.63	2.4835G	-55.07	2.49814G	-52.66	23.23684G	-40.51	1

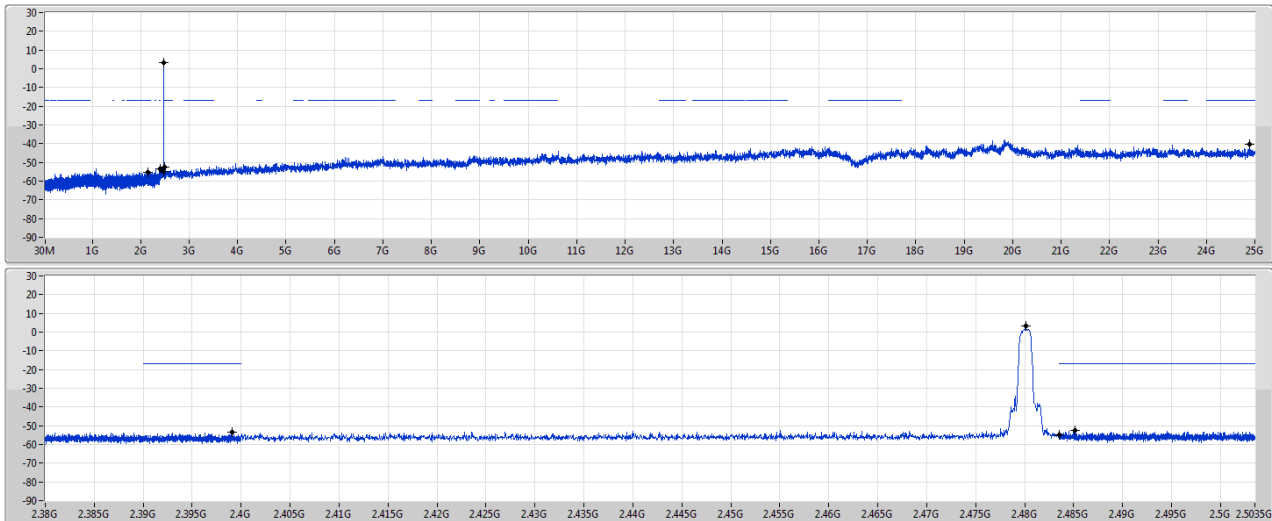
BT-EDR(2Mbps)

2480MHz

CSE NdB

08/07/2020

Port 1



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)	Freq(Hz)	Level(dBm)	Port
2.48012G	3.08	-16.92	2.15205G	-55.09	2.39905G	-53.66	2.4835G	-54.87	2.48515G	-52.50	24.88471G	-40.37	1

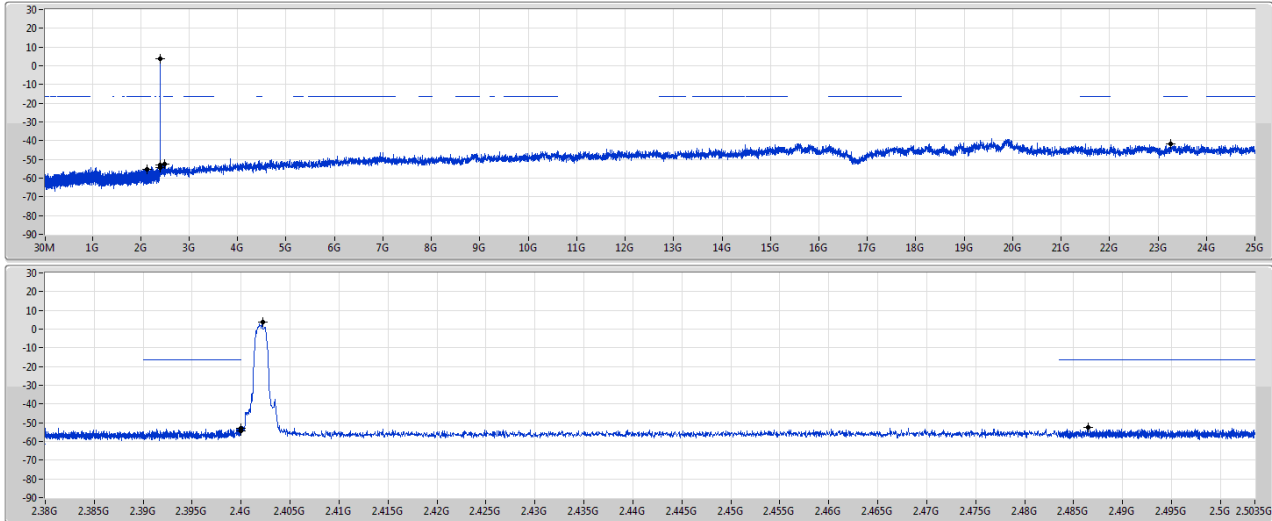
BT-EDR(3Mbps)

2402MHz

CSE NdB

08/07/2020

Port 1



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

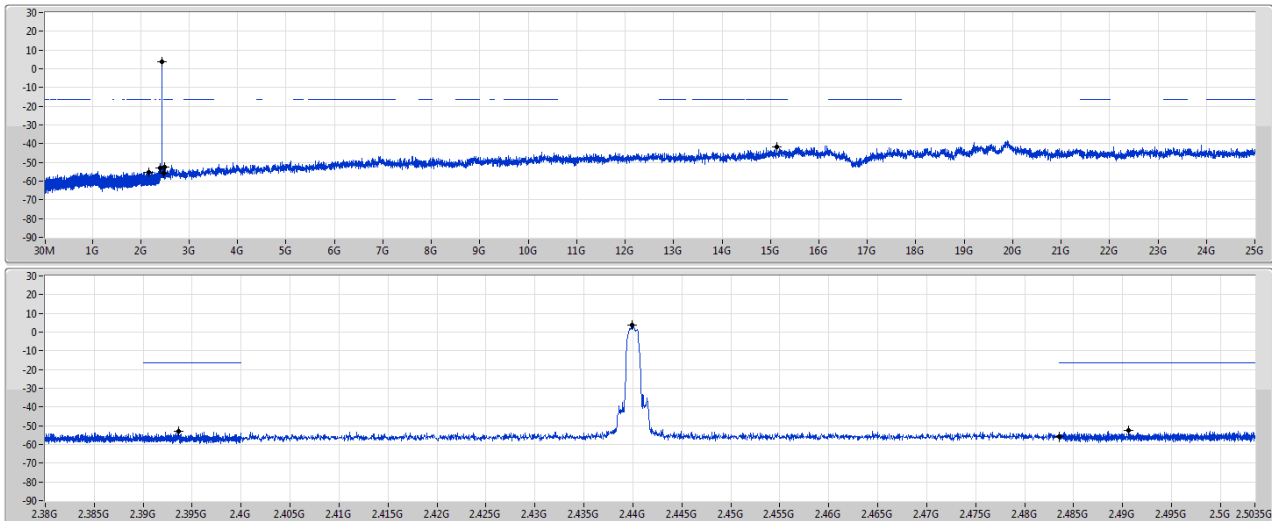
BT-EDR(3Mbps)

2440MHz

CSE NdB

08/07/2020

Port 1



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

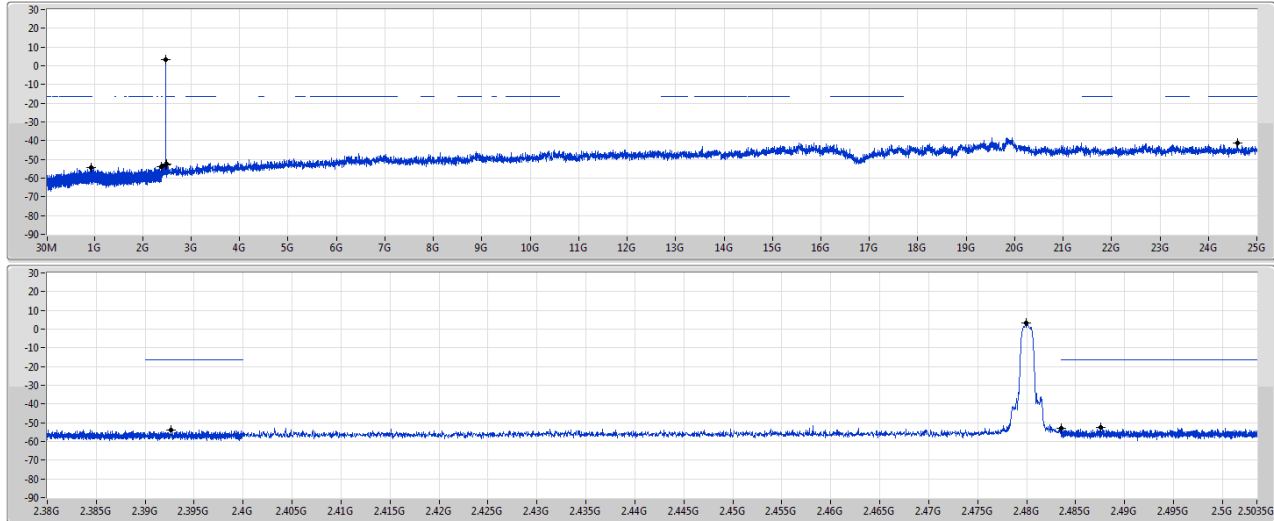
BT-EDR(3Mbps)

2480MHz

CSE NdB

08/07/2020

Port 1



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)	Freq(Hz)	Level(dBm)	Port
2.47991G	3.44	-16.56	935.63M	-54.31	2.39265G	-53.96	2.4835G	-53.04	2.48752G	-52.62	24.60069G	-41.41	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-BR(1Mbps)	Pass	PK	30M	34.34	40.00	-5.66	3	Vertical	0	1.00	-

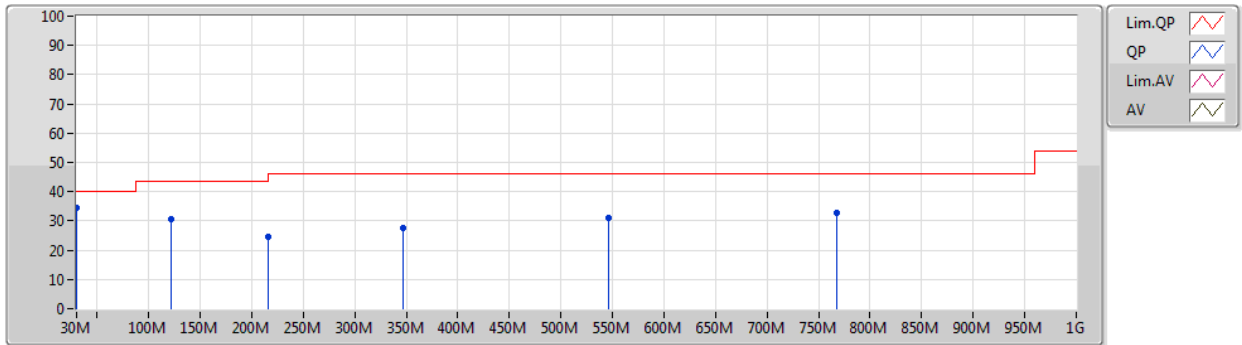
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2440MHz	Pass	PK	30M	34.34	40.00	-5.66	3	Vertical	0	1.00	-
2440MHz	Pass	PK	121.18M	30.43	43.50	-13.07	3	Vertical	0	1.00	-
2440MHz	Pass	PK	216.24M	24.76	46.00	-21.24	3	Vertical	0	1.00	-
2440MHz	Pass	PK	346.22M	27.44	46.00	-18.56	3	Vertical	0	1.00	-
2440MHz	Pass	PK	546.04M	31.18	46.00	-14.82	3	Vertical	0	1.00	-
2440MHz	Pass	PK	767.2M	32.60	46.00	-13.40	3	Vertical	0	1.00	-
2440MHz	Pass	PK	30M	29.45	40.00	-10.55	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	136.7M	25.33	43.50	-18.17	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	191.02M	29.58	43.50	-13.92	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	315.18M	35.30	46.00	-10.70	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	447.1M	32.53	46.00	-13.47	3	Horizontal	360	1.00	-
2440MHz	Pass	PK	635.28M	31.61	46.00	-14.39	3	Horizontal	360	1.00	-

BT-BR(1Mbps)

2440MHz_Adapter

08/07/2020

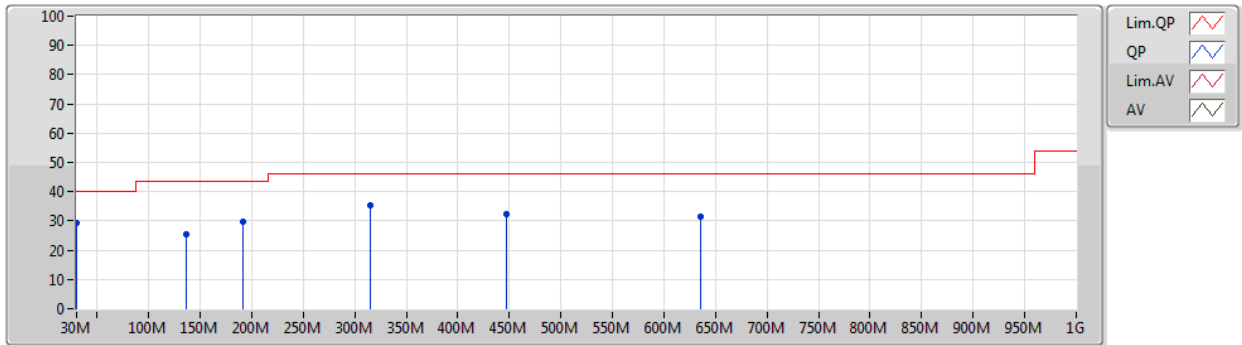


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	34.34	40.00	-5.66	-2.92	3	Vertical	0	1.00	-	37.26	23.48	0.81	27.21
PK	121.18M	30.43	43.50	-13.07	-8.74	3	Vertical	0	1.00	-	39.17	17.32	1.64	27.70
PK	216.24M	24.76	46.00	-21.24	-10.82	3	Vertical	0	1.00	-	35.58	14.17	2.22	27.21
PK	346.22M	27.44	46.00	-18.56	-5.09	3	Vertical	0	1.00	-	32.53	19.36	2.85	27.30
PK	546.04M	31.18	46.00	-14.82	-0.86	3	Vertical	0	1.00	-	32.04	23.86	3.63	28.35
PK	767.2M	32.60	46.00	-13.40	1.41	3	Vertical	0	1.00	-	31.19	24.93	4.40	27.92

BT-BR(1Mbps)

2440MHz_Adapter

08/07/2020



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	30M	29.45	40.00	-10.55	-2.92	3	Horizontal	360	1.00	-	32.37	23.48	0.81	27.21
PK	136.7M	25.33	43.50	-18.17	-9.30	3	Horizontal	360	1.00	-	34.63	16.61	1.72	27.63
PK	191.02M	29.58	43.50	-13.92	-11.13	3	Horizontal	360	1.00	-	40.71	14.15	2.08	27.36
PK	315.18M	35.30	46.00	-10.70	-5.68	3	Horizontal	360	1.00	-	40.98	18.73	2.72	27.13
PK	447.1M	32.53	46.00	-13.47	-2.97	3	Horizontal	360	1.00	-	35.50	21.81	3.27	28.05
PK	635.28M	31.61	46.00	-14.39	-0.09	3	Horizontal	360	1.00	-	31.70	24.23	3.97	28.29



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	PK	2.3582G	58.23	74.00	-15.77	3	Horizontal	88	1.00	-
BT-EDR(3Mbps)	Pass	PK	2.3534G	58.70	74.00	-15.30	3	Vertical	265	2.08	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.359G	35.23	54.00	-18.77	3	Vertical	250	2.09	-
2402MHz	Pass	AV	2.402G	78.00	Inf	-Inf	3	Vertical	250	2.09	-
2402MHz	Pass	PK	2.359G	57.73	74.00	-16.27	3	Vertical	250	2.09	-
2402MHz	Pass	PK	2.402G	100.50	Inf	-Inf	3	Vertical	250	2.09	-
2402MHz	Pass	AV	2.3582G	35.73	54.00	-18.27	3	Horizontal	88	1.00	-
2402MHz	Pass	AV	2.402G	77.31	Inf	-Inf	3	Horizontal	88	1.00	-
2402MHz	Pass	PK	2.3582G	58.23	74.00	-15.77	3	Horizontal	88	1.00	-
2402MHz	Pass	PK	2.402G	99.81	Inf	-Inf	3	Horizontal	88	1.00	-
2402MHz	Pass	AV	4.80458G	21.74	54.00	-32.26	3	Vertical	29	2.99	-
2402MHz	Pass	PK	4.80458G	44.24	74.00	-29.76	3	Vertical	29	2.99	-
2402MHz	Pass	AV	4.8064G	21.64	54.00	-32.36	3	Horizontal	130	1.49	-
2402MHz	Pass	PK	4.8064G	44.14	74.00	-29.86	3	Horizontal	130	1.49	-
2440MHz	Pass	AV	2.3676G	35.33	54.00	-18.67	3	Vertical	251	1.82	-
2440MHz	Pass	AV	2.44G	78.76	Inf	-Inf	3	Vertical	251	1.82	-
2440MHz	Pass	AV	2.4964G	34.92	54.00	-19.08	3	Vertical	251	1.82	-
2440MHz	Pass	PK	2.3676G	57.83	74.00	-16.17	3	Vertical	251	1.82	-
2440MHz	Pass	PK	2.44G	101.26	Inf	-Inf	3	Vertical	251	1.82	-
2440MHz	Pass	PK	2.4964G	57.42	74.00	-16.58	3	Vertical	251	1.82	-
2440MHz	Pass	AV	2.3528G	35.58	54.00	-18.42	3	Horizontal	101	2.40	-
2440MHz	Pass	AV	2.44G	79.05	Inf	-Inf	3	Horizontal	101	2.40	-
2440MHz	Pass	AV	2.4912G	34.98	54.00	-19.02	3	Horizontal	101	2.40	-
2440MHz	Pass	PK	2.3528G	58.08	74.00	-15.92	3	Horizontal	101	2.40	-
2440MHz	Pass	PK	2.44G	101.55	Inf	-Inf	3	Horizontal	101	2.40	-
2440MHz	Pass	PK	2.4912G	57.48	74.00	-16.52	3	Horizontal	101	2.40	-
2440MHz	Pass	AV	4.88384G	21.74	54.00	-32.26	3	Vertical	188	1.48	-
2440MHz	Pass	PK	4.88384G	44.24	74.00	-29.76	3	Vertical	188	1.48	-
2440MHz	Pass	AV	4.88174G	21.54	54.00	-32.46	3	Horizontal	0	1.49	-
2440MHz	Pass	PK	4.88174G	44.04	74.00	-29.96	3	Horizontal	0	1.49	-
2480MHz	Pass	AV	2.4798G	78.83	Inf	-Inf	3	Vertical	252	1.49	-
2480MHz	Pass	AV	2.4916G	35.23	54.00	-18.77	3	Vertical	252	1.49	-
2480MHz	Pass	PK	2.4798G	101.33	Inf	-Inf	3	Vertical	252	1.49	-
2480MHz	Pass	PK	2.4916G	57.73	74.00	-16.27	3	Vertical	252	1.49	-
2480MHz	Pass	AV	2.4798G	78.47	Inf	-Inf	3	Horizontal	97	2.63	-
2480MHz	Pass	AV	2.4836G	34.89	54.00	-19.11	3	Horizontal	97	2.63	-
2480MHz	Pass	PK	2.4798G	100.97	Inf	-Inf	3	Horizontal	97	2.63	-
2480MHz	Pass	PK	2.4836G	57.39	74.00	-16.61	3	Horizontal	97	2.63	-
2480MHz	Pass	AV	4.95904G	21.35	54.00	-32.65	3	Vertical	229	2.15	-
2480MHz	Pass	PK	4.95904G	43.85	74.00	-30.15	3	Vertical	229	2.15	-
2480MHz	Pass	AV	4.96014G	22.07	54.00	-31.93	3	Horizontal	201	1.49	-
2480MHz	Pass	PK	4.96014G	44.57	74.00	-29.43	3	Horizontal	201	1.49	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3534G	36.20	54.00	-17.80	3	Vertical	265	2.08	-
2402MHz	Pass	AV	2.4022G	76.97	Inf	-Inf	3	Vertical	265	2.08	-
2402MHz	Pass	PK	2.3534G	58.70	74.00	-15.30	3	Vertical	265	2.08	-
2402MHz	Pass	PK	2.4022G	99.47	Inf	-Inf	3	Vertical	265	2.08	-
2402MHz	Pass	AV	2.356G	35.27	54.00	-18.73	3	Horizontal	89	1.01	-
2402MHz	Pass	AV	2.402G	78.32	Inf	-Inf	3	Horizontal	89	1.01	-

Remark :

Page No. : G2 of G27

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

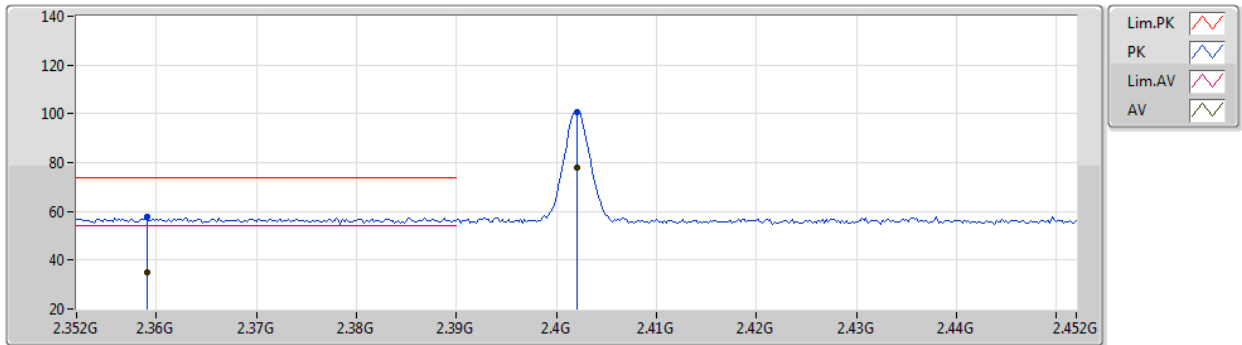
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Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2402MHz	Pass	PK	2.356G	57.77	74.00	-16.23	3	Horizontal	89	1.01	-
2402MHz	Pass	PK	2.402G	100.82	Inf	-Inf	3	Horizontal	89	1.01	-
2402MHz	Pass	AV	4.8038G	21.17	54.00	-32.83	3	Vertical	67	2.47	-
2402MHz	Pass	PK	4.8038G	43.67	74.00	-30.33	3	Vertical	67	2.47	-
2402MHz	Pass	AV	4.79952G	21.14	54.00	-32.86	3	Horizontal	159	1.49	-
2402MHz	Pass	PK	4.79952G	43.64	74.00	-30.36	3	Horizontal	159	1.49	-
2440MHz	Pass	AV	2.3752G	35.43	54.00	-18.57	3	Vertical	250	1.50	-
2440MHz	Pass	AV	2.44G	78.68	Inf	-Inf	3	Vertical	250	1.50	-
2440MHz	Pass	AV	2.4872G	34.88	54.00	-19.12	3	Vertical	250	1.50	-
2440MHz	Pass	PK	2.3752G	57.93	74.00	-16.07	3	Vertical	250	1.50	-
2440MHz	Pass	PK	2.44G	101.18	Inf	-Inf	3	Vertical	250	1.50	-
2440MHz	Pass	PK	2.4872G	57.38	74.00	-16.62	3	Vertical	250	1.50	-
2440MHz	Pass	AV	2.3748G	35.02	54.00	-18.98	3	Horizontal	113	2.67	-
2440MHz	Pass	AV	2.44G	79.74	Inf	-Inf	3	Horizontal	113	2.67	-
2440MHz	Pass	AV	2.4936G	34.31	54.00	-19.69	3	Horizontal	113	2.67	-
2440MHz	Pass	PK	2.3748G	57.52	74.00	-16.48	3	Horizontal	113	2.67	-
2440MHz	Pass	PK	2.44G	102.24	Inf	-Inf	3	Horizontal	113	2.67	-
2440MHz	Pass	PK	2.4936G	56.81	74.00	-17.19	3	Horizontal	113	2.67	-
2440MHz	Pass	AV	4.87718G	21.39	54.00	-32.61	3	Vertical	262	2.95	-
2440MHz	Pass	PK	4.87718G	43.89	74.00	-30.11	3	Vertical	262	2.95	-
2440MHz	Pass	AV	4.87646G	21.98	54.00	-32.02	3	Horizontal	176	1.50	-
2440MHz	Pass	PK	4.87646G	44.48	74.00	-29.52	3	Horizontal	176	1.50	-
2480MHz	Pass	AV	2.48G	79.37	Inf	-Inf	3	Vertical	252	2.03	-
2480MHz	Pass	AV	2.4835G	35.51	54.00	-18.49	3	Vertical	252	2.03	-
2480MHz	Pass	PK	2.48G	101.87	Inf	-Inf	3	Vertical	252	2.03	-
2480MHz	Pass	PK	2.4835G	58.01	74.00	-15.99	3	Vertical	252	2.03	-
2480MHz	Pass	AV	2.48G	78.87	Inf	-Inf	3	Horizontal	95	2.62	-
2480MHz	Pass	AV	2.484G	35.60	54.00	-18.40	3	Horizontal	95	2.62	-
2480MHz	Pass	PK	2.48G	101.37	Inf	-Inf	3	Horizontal	95	2.62	-
2480MHz	Pass	PK	2.484G	58.10	74.00	-15.90	3	Horizontal	95	2.62	-
2480MHz	Pass	AV	4.95982G	22.41	54.00	-31.59	3	Vertical	271	2.91	-
2480MHz	Pass	PK	4.95982G	44.91	74.00	-29.09	3	Vertical	271	2.91	-
2480MHz	Pass	AV	4.95772G	21.44	54.00	-32.56	3	Horizontal	300	1.49	-
2480MHz	Pass	PK	4.95772G	43.94	74.00	-30.06	3	Horizontal	300	1.49	-

BT-BR(1Mbps)

2402MHz_TX

07/07/2020

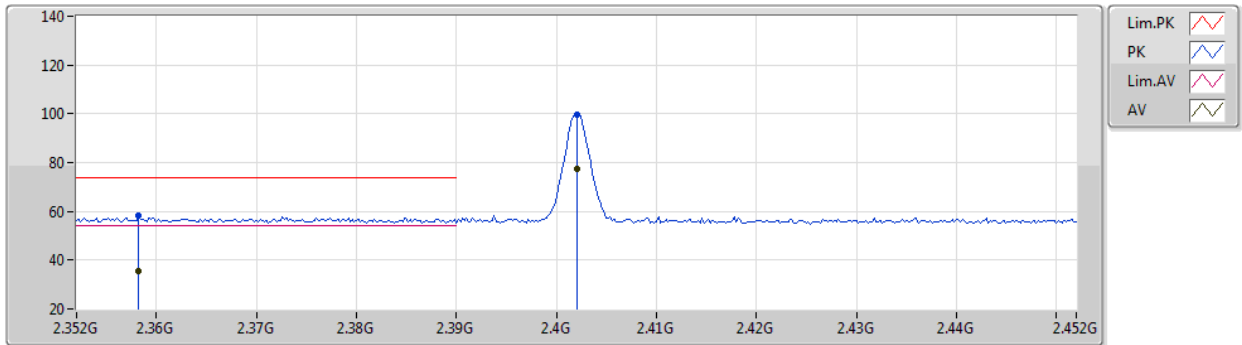


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.359G	35.23	54.00	-18.77	33.61	3	Vertical	250	2.09	-	1.62	27.68	5.93	-
AV	2.402G	78.00	Inf	-Inf	33.55	3	Vertical	250	2.09	-	44.45	27.59	5.96	-
PK	2.359G	57.73	74.00	-16.27	33.61	3	Vertical	250	2.09	-	24.12	27.68	5.93	-
PK	2.402G	100.50	Inf	-Inf	33.55	3	Vertical	250	2.09	-	66.95	27.59	5.96	-

BT-BR(1Mbps)

2402MHz_TX

07/07/2020

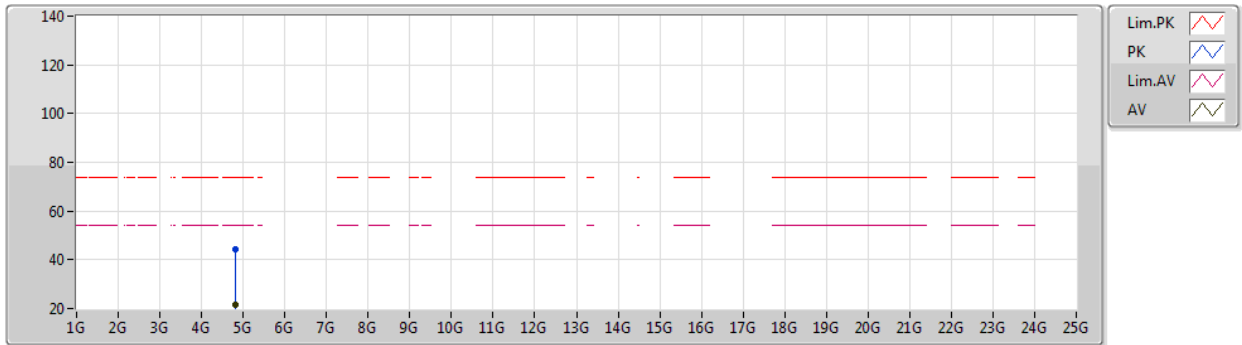


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3582G	35.73	54.00	-18.27	33.61	3	Horizontal	88	1.00	-	2.12	27.68	5.93	-
AV	2.402G	77.31	Inf	-Inf	33.55	3	Horizontal	88	1.00	-	43.76	27.59	5.96	-
PK	2.3582G	58.23	74.00	-15.77	33.61	3	Horizontal	88	1.00	-	24.62	27.68	5.93	-
PK	2.402G	99.81	Inf	-Inf	33.55	3	Horizontal	88	1.00	-	66.26	27.59	5.96	-

BT-BR(1Mbps)

2402MHz_TX

07/07/2020

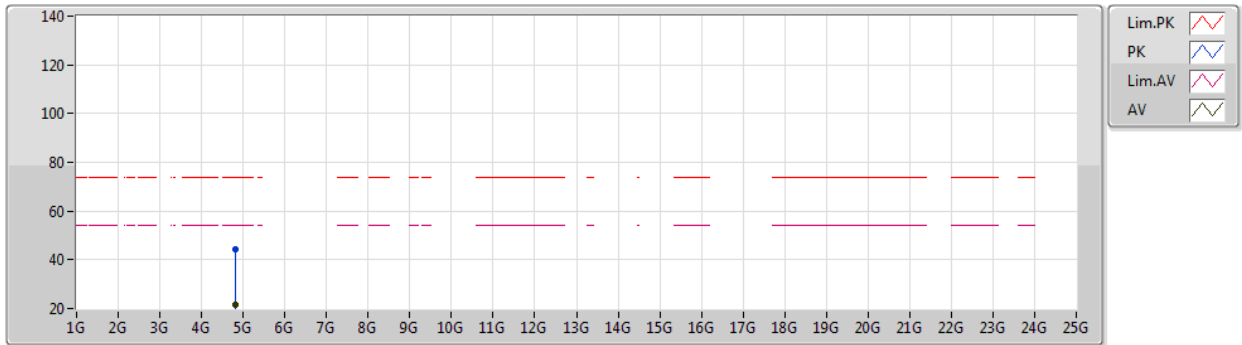


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.80458G	21.74	54.00	-32.26	5.26	3	Vertical	29	2.99	-	16.48	30.92	8.25	33.91
PK	4.80458G	44.24	74.00	-29.76	5.26	3	Vertical	29	2.99	-	38.98	30.92	8.25	33.91

BT-BR(1Mbps)

2402MHz_TX

07/07/2020

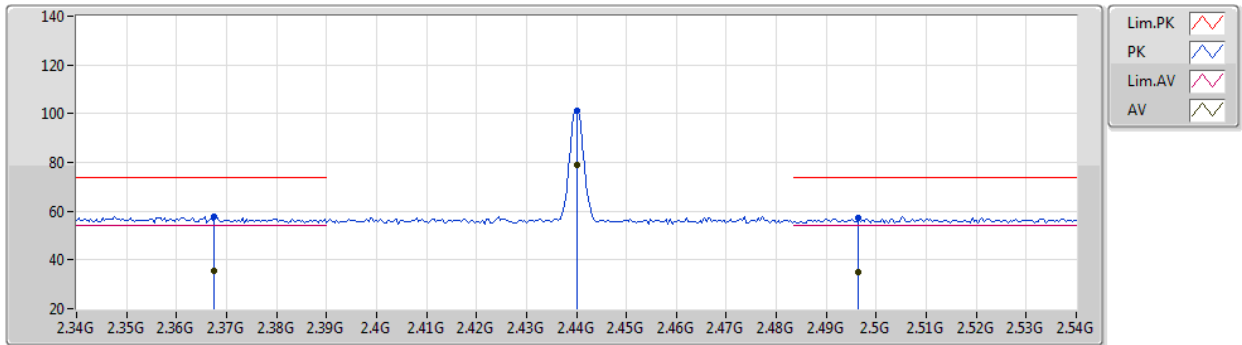


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8064G	21.64	54.00	-32.36	5.27	3	Horizontal	130	1.49	-	16.37	30.93	8.25	33.91
PK	4.8064G	44.14	74.00	-29.86	5.27	3	Horizontal	130	1.49	-	38.87	30.93	8.25	33.91

BT-BR(1Mbps)

2440MHz_TX

07/07/2020

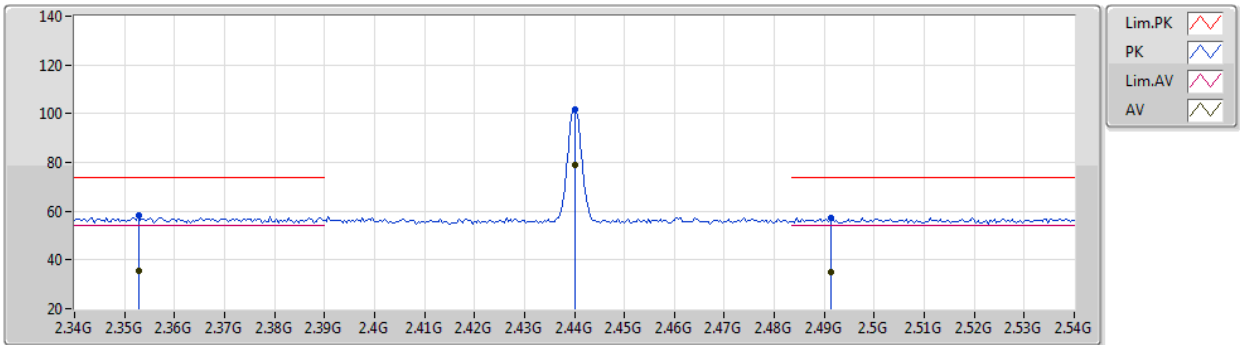


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3676G	35.33	54.00	-18.67	33.60	3	Vertical	251	1.82	-	1.73	27.66	5.94	-
AV	2.44G	78.76	Inf	-Inf	33.45	3	Vertical	251	1.82	-	45.31	27.44	6.01	-
AV	2.4964G	34.92	54.00	-19.08	33.48	3	Vertical	251	1.82	-	1.44	27.40	6.08	-
PK	2.3676G	57.83	74.00	-16.17	33.60	3	Vertical	251	1.82	-	24.23	27.66	5.94	-
PK	2.44G	101.26	Inf	-Inf	33.45	3	Vertical	251	1.82	-	67.81	27.44	6.01	-
PK	2.4964G	57.42	74.00	-16.58	33.48	3	Vertical	251	1.82	-	23.94	27.40	6.08	-

BT-BR(1Mbps)

2440MHz_TX

07/07/2020

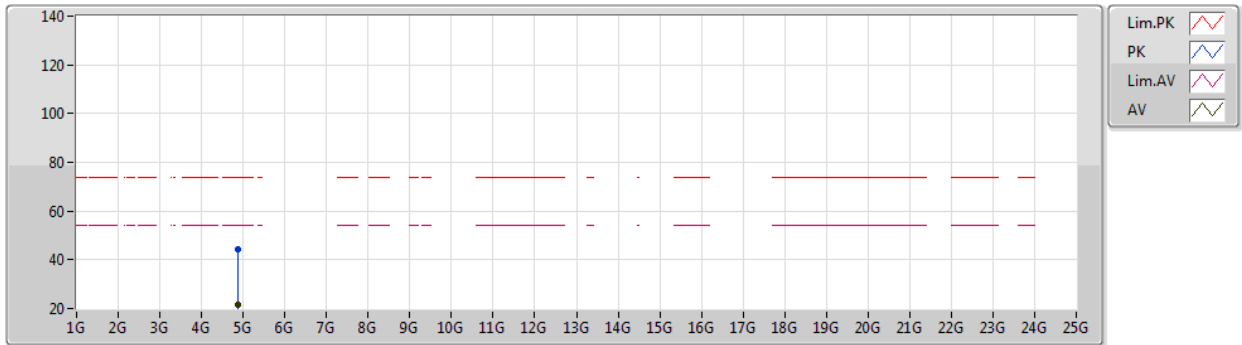


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3528G	35.58	54.00	-18.42	33.61	3	Horizontal	101	2.40	-	1.97	27.69	5.92	-
AV	2.44G	79.05	Inf	-Inf	33.45	3	Horizontal	101	2.40	-	45.60	27.44	6.01	-
AV	2.4912G	34.98	54.00	-19.02	33.47	3	Horizontal	101	2.40	-	1.51	27.40	6.07	-
PK	2.3528G	58.08	74.00	-15.92	33.61	3	Horizontal	101	2.40	-	24.47	27.69	5.92	-
PK	2.44G	101.55	Inf	-Inf	33.45	3	Horizontal	101	2.40	-	68.10	27.44	6.01	-
PK	2.4912G	57.48	74.00	-16.52	33.47	3	Horizontal	101	2.40	-	24.01	27.40	6.07	-

BT-BR(1Mbps)

2440MHz_TX

07/07/2020

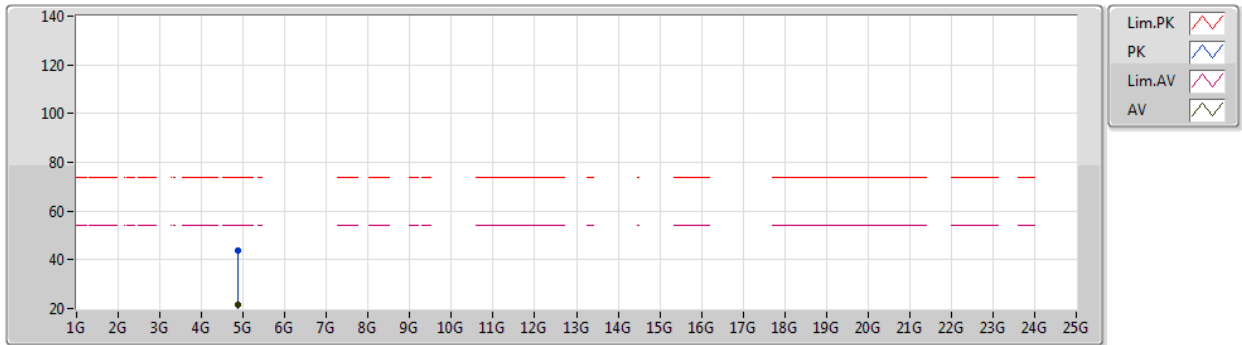


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88384G	21.74	54.00	-32.26	5.46	3	Vertical	188	1.48	-	16.28	31.03	8.30	33.87
PK	4.88384G	44.24	74.00	-29.76	5.46	3	Vertical	188	1.48	-	38.78	31.03	8.30	33.87

BT-BR(1Mbps)

2440MHz_TX

07/07/2020

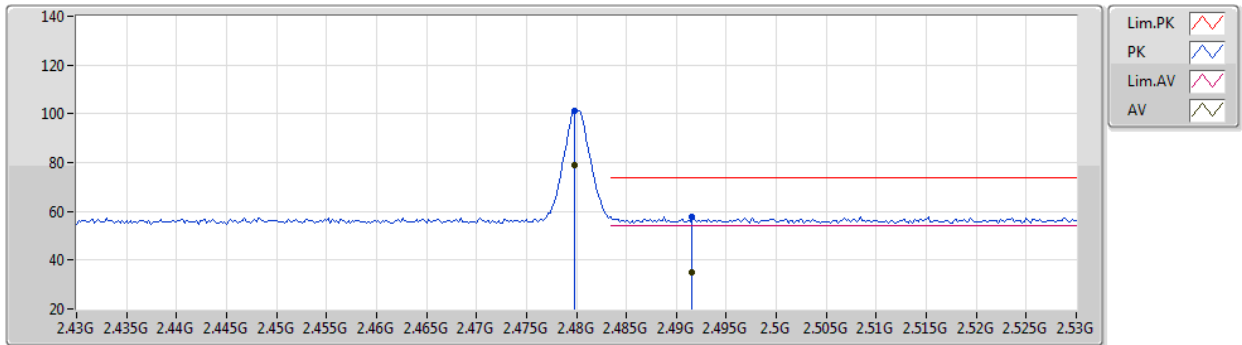


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88174G	21.54	54.00	-32.46	5.47	3	Horizontal	0	1.49	-	16.07	31.04	8.30	33.87
PK	4.88174G	44.04	74.00	-29.96	5.47	3	Horizontal	0	1.49	-	38.57	31.04	8.30	33.87

BT-BR(1Mbps)

2480MHz_TX

07/07/2020

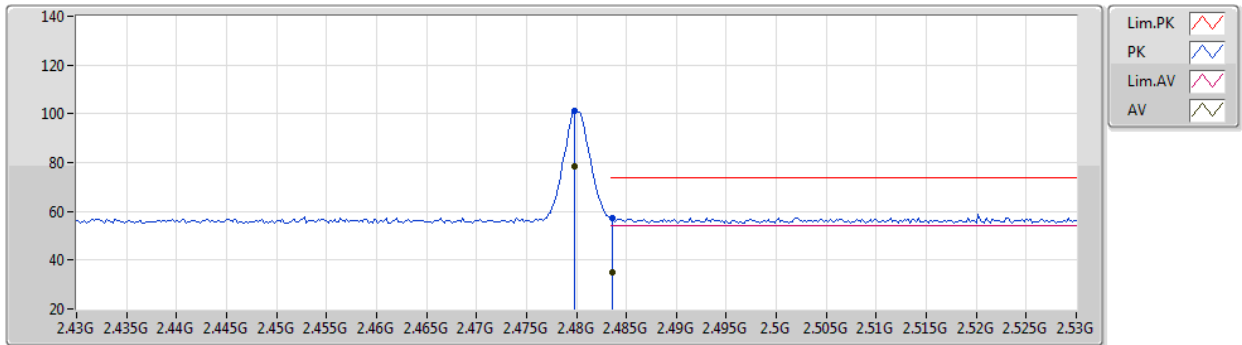


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4798G	78.83	Inf	-Inf	33.46	3	Vertical	252	1.49	-	45.37	27.40	6.06	-
AV	2.4916G	35.23	54.00	-18.77	33.47	3	Vertical	252	1.49	-	1.76	27.40	6.07	-
PK	2.4798G	101.33	Inf	-Inf	33.46	3	Vertical	252	1.49	-	67.87	27.40	6.06	-
PK	2.4916G	57.73	74.00	-16.27	33.47	3	Vertical	252	1.49	-	24.26	27.40	6.07	-

BT-BR(1Mbps)

2480MHz_TX

07/07/2020

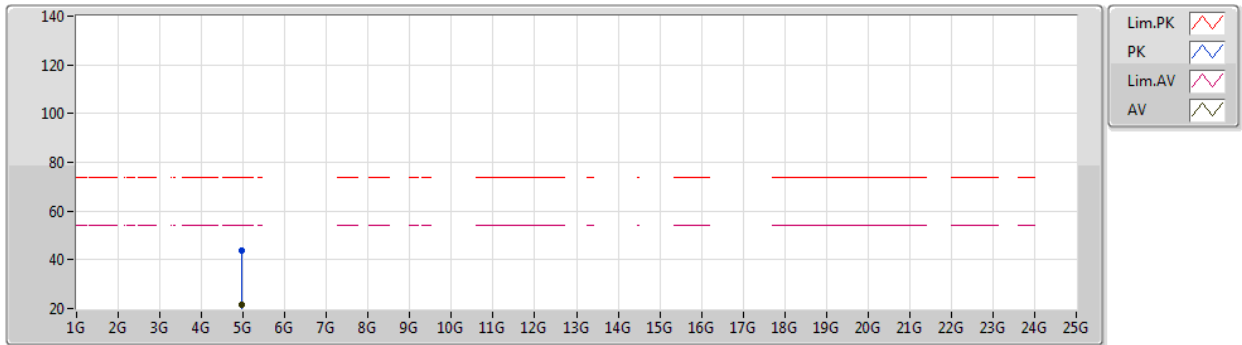


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4798G	78.47	Inf	-Inf	33.46	3	Horizontal	97	2.63	-	45.01	27.40	6.06	-
AV	2.4836G	34.89	54.00	-19.11	33.46	3	Horizontal	97	2.63	-	1.43	27.40	6.06	-
PK	2.4798G	100.97	Inf	-Inf	33.46	3	Horizontal	97	2.63	-	67.51	27.40	6.06	-
PK	2.4836G	57.39	74.00	-16.61	33.46	3	Horizontal	97	2.63	-	23.93	27.40	6.06	-

BT-BR(1Mbps)

2480MHz_TX

07/07/2020

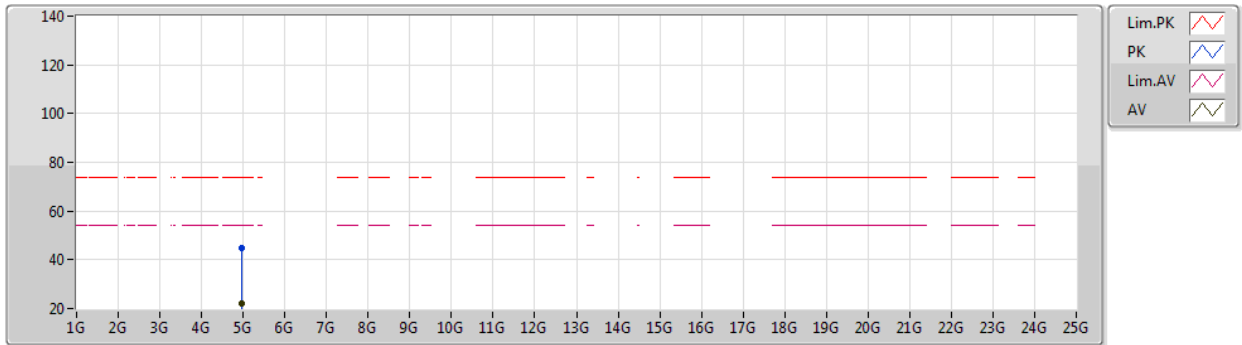


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95904G	21.35	54.00	-32.65	5.75	3	Vertical	229	2.15	-	15.60	31.22	8.35	33.82
PK	4.95904G	43.85	74.00	-30.15	5.75	3	Vertical	229	2.15	-	38.10	31.22	8.35	33.82

BT-BR(1Mbps)

2480MHz_TX

07/07/2020

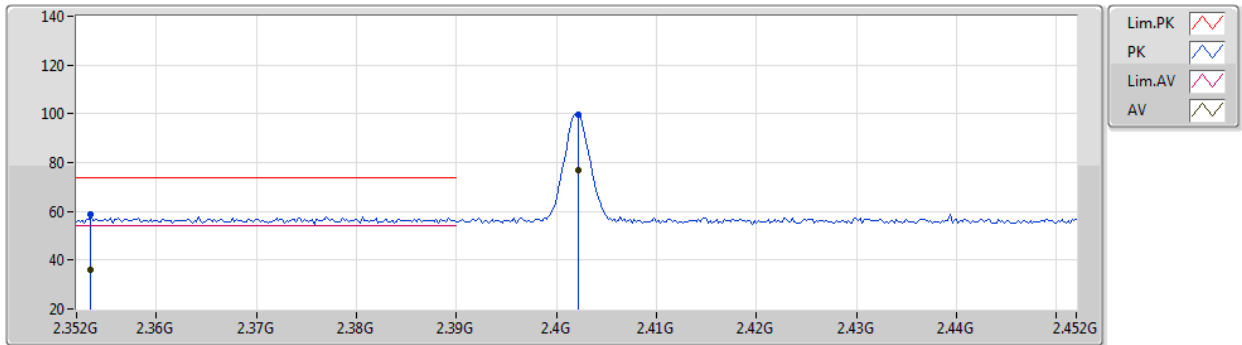


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.96014G	22.07	54.00	-31.93	5.75	3	Horizontal	201	1.49	-	16.32	31.22	8.35	33.82
PK	4.96014G	44.57	74.00	-29.43	5.75	3	Horizontal	201	1.49	-	38.82	31.22	8.35	33.82

BT-EDR(3Mbps)

2402MHz_TX

07/07/2020

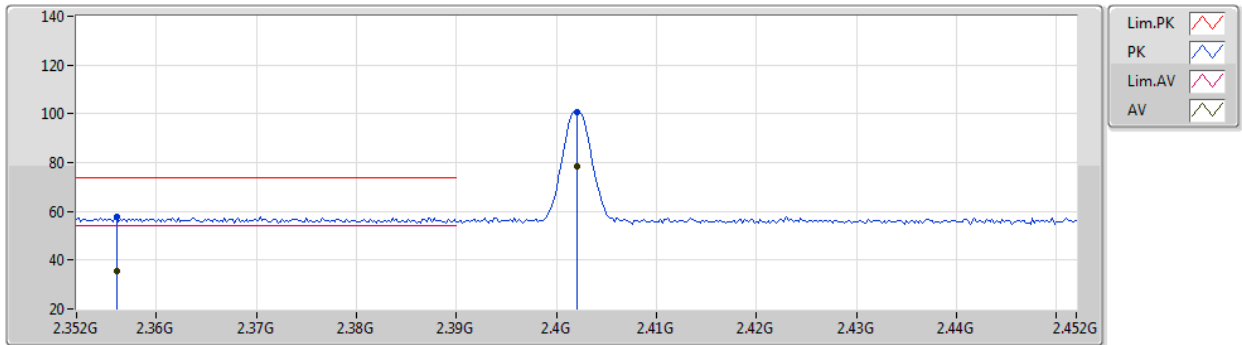


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3534G	36.20	54.00	-17.80	33.62	3	Vertical	265	2.08	-	2.58	27.69	5.93	-
AV	2.4022G	76.97	Inf	-Inf	33.55	3	Vertical	265	2.08	-	43.42	27.59	5.96	-
PK	2.3534G	58.70	74.00	-15.30	33.62	3	Vertical	265	2.08	-	25.08	27.69	5.93	-
PK	2.4022G	99.47	Inf	-Inf	33.55	3	Vertical	265	2.08	-	65.92	27.59	5.96	-

BT-EDR(3Mbps)

2402MHz_TX

07/07/2020

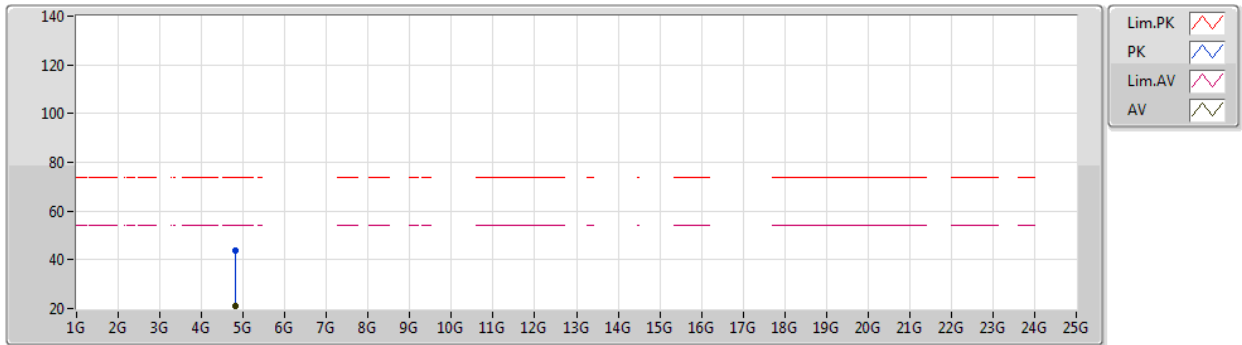


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.356G	35.27	54.00	-18.73	33.62	3	Horizontal	89	1.01	-	1.65	27.69	5.93	-
AV	2.402G	78.32	Inf	-Inf	33.55	3	Horizontal	89	1.01	-	44.77	27.59	5.96	-
PK	2.356G	57.77	74.00	-16.23	33.62	3	Horizontal	89	1.01	-	24.15	27.69	5.93	-
PK	2.402G	100.82	Inf	-Inf	33.55	3	Horizontal	89	1.01	-	67.27	27.59	5.96	-

BT-EDR(3Mbps)

07/07/2020

2402MHz_TX

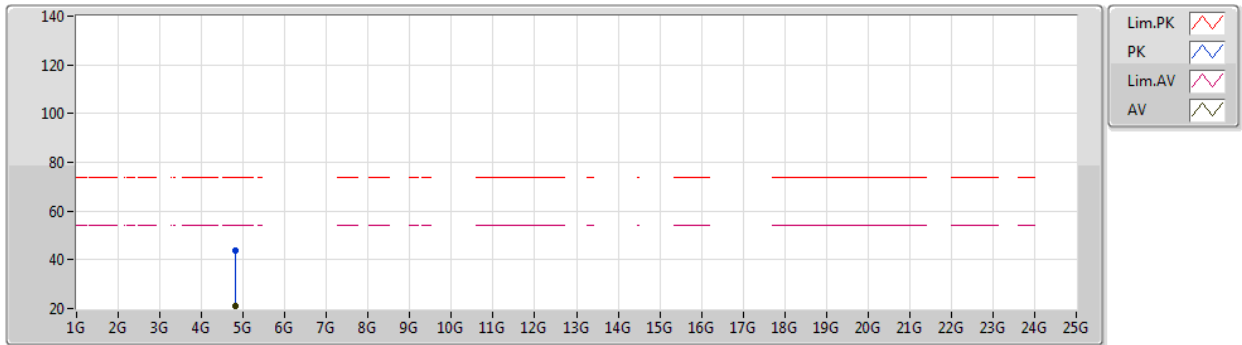


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8038G	21.17	54.00	-32.83	5.26	3	Vertical	67	2.47	-	15.91	30.92	8.25	33.91
PK	4.8038G	43.67	74.00	-30.33	5.26	3	Vertical	67	2.47	-	38.41	30.92	8.25	33.91

BT-EDR(3Mbps)

2402MHz_TX

07/07/2020

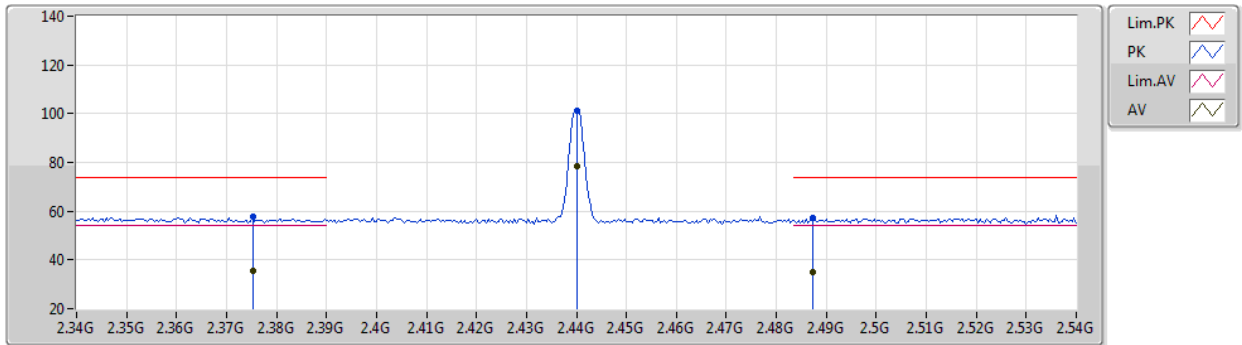


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.79952G	21.14	54.00	-32.86	5.24	3	Horizontal	159	1.49	-	15.90	30.90	8.25	33.91
PK	4.79952G	43.64	74.00	-30.36	5.24	3	Horizontal	159	1.49	-	38.40	30.90	8.25	33.91

BT-EDR(3Mbps)

2440MHz_TX

07/07/2020

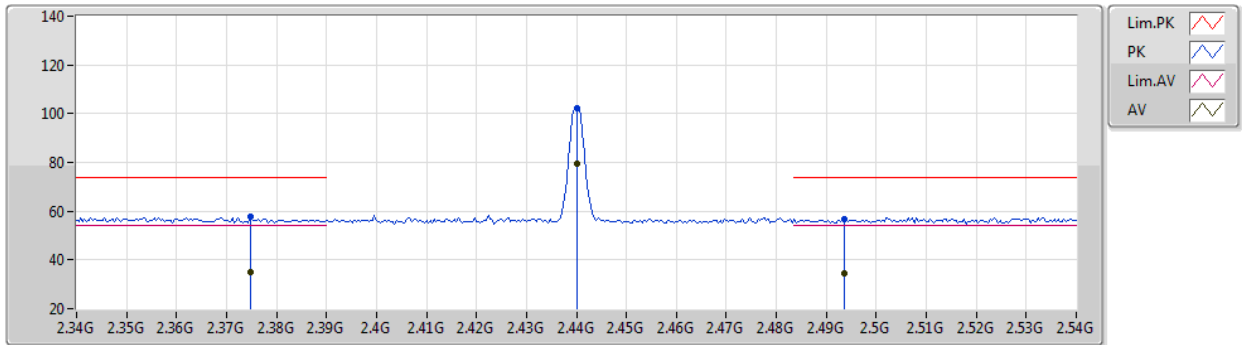


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3752G	35.43	54.00	-18.57	33.59	3	Vertical	250	1.50	-	1.84	27.65	5.94	-
AV	2.44G	78.68	Inf	-Inf	33.45	3	Vertical	250	1.50	-	45.23	27.44	6.01	-
AV	2.4872G	34.88	54.00	-19.12	33.46	3	Vertical	250	1.50	-	1.42	27.40	6.06	-
PK	2.3752G	57.93	74.00	-16.07	33.59	3	Vertical	250	1.50	-	24.34	27.65	5.94	-
PK	2.44G	101.18	Inf	-Inf	33.45	3	Vertical	250	1.50	-	67.73	27.44	6.01	-
PK	2.4872G	57.38	74.00	-16.62	33.46	3	Vertical	250	1.50	-	23.92	27.40	6.06	-

BT-EDR(3Mbps)

2440MHz_TX

07/07/2020

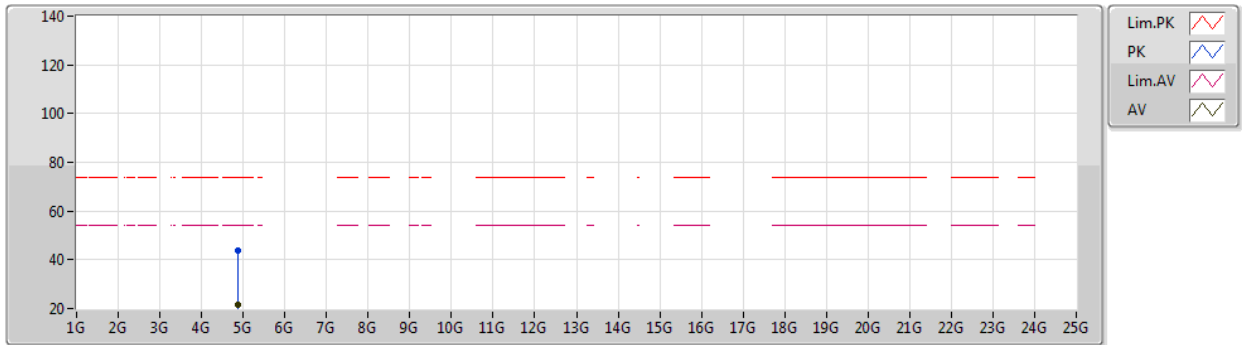


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3748G	35.02	54.00	-18.98	33.59	3	Horizontal	113	2.67	-	1.43	27.65	5.94	-
AV	2.44G	79.74	Inf	-Inf	33.45	3	Horizontal	113	2.67	-	46.29	27.44	6.01	-
AV	2.4936G	34.31	54.00	-19.69	33.47	3	Horizontal	113	2.67	-	0.84	27.40	6.07	-
PK	2.3748G	57.52	74.00	-16.48	33.59	3	Horizontal	113	2.67	-	23.93	27.65	5.94	-
PK	2.44G	102.24	Inf	-Inf	33.45	3	Horizontal	113	2.67	-	68.79	27.44	6.01	-
PK	2.4936G	56.81	74.00	-17.19	33.47	3	Horizontal	113	2.67	-	23.34	27.40	6.07	-

BT-EDR(3Mbps)

07/07/2020

2440MHz_TX

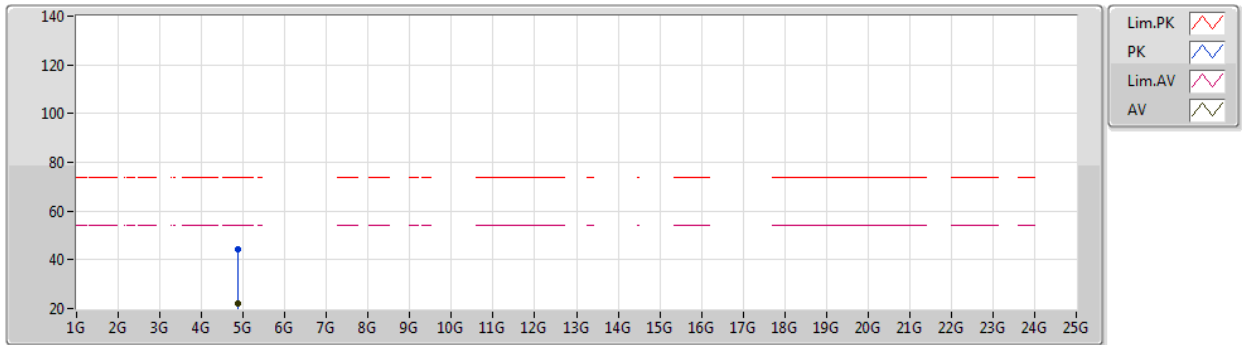


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87718G	21.39	54.00	-32.61	5.48	3	Vertical	262	2.95	-	15.91	31.05	8.30	33.87
PK	4.87718G	43.89	74.00	-30.11	5.48	3	Vertical	262	2.95	-	38.41	31.05	8.30	33.87

BT-EDR(3Mbps)

07/07/2020

2440MHz_TX

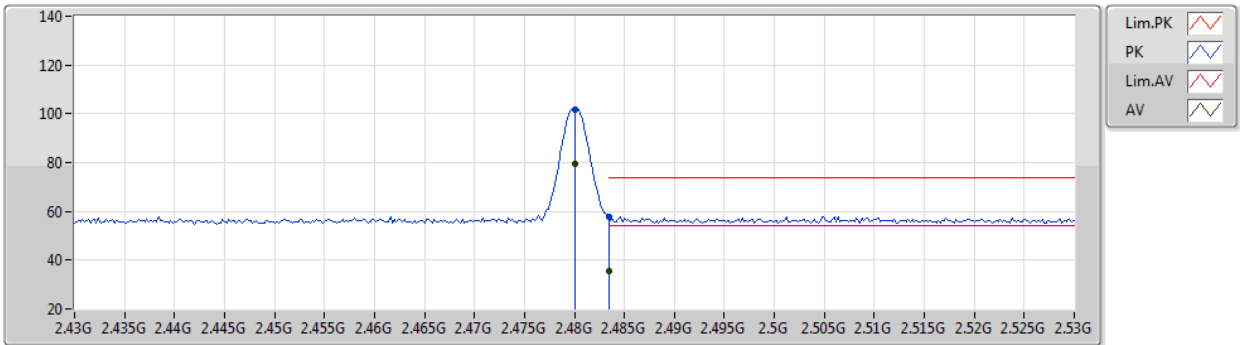


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87646G	21.98	54.00	-32.02	5.48	3	Horizontal	176	1.50	-	16.50	31.05	8.30	33.87
PK	4.87646G	44.48	74.00	-29.52	5.48	3	Horizontal	176	1.50	-	39.00	31.05	8.30	33.87

BT-EDR(3Mbps)

2480MHz_TX

07/07/2020

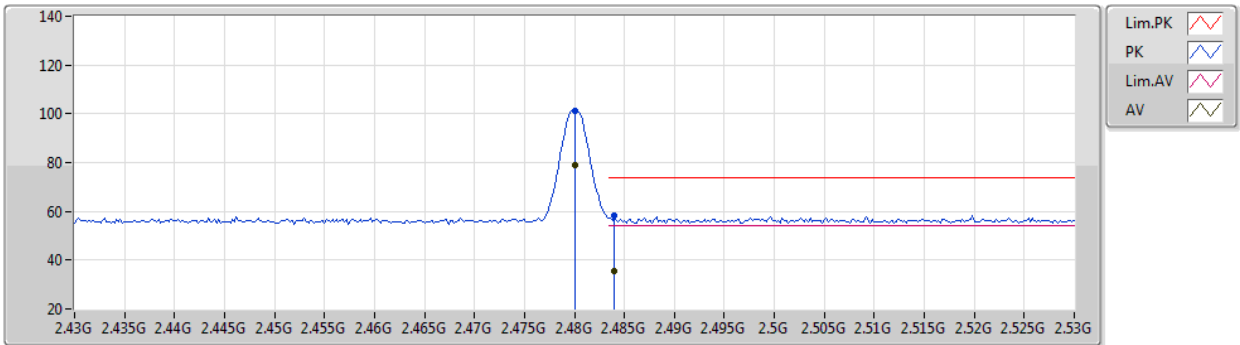


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	79.37	Inf	-Inf	33.46	3	Vertical	252	2.03	-	45.91	27.40	6.06	-
AV	2.4835G	35.51	54.00	-18.49	33.46	3	Vertical	252	2.03	-	2.05	27.40	6.06	-
PK	2.48G	101.87	Inf	-Inf	33.46	3	Vertical	252	2.03	-	68.41	27.40	6.06	-
PK	2.4835G	58.01	74.00	-15.99	33.46	3	Vertical	252	2.03	-	24.55	27.40	6.06	-

BT-EDR(3Mbps)

2480MHz_TX

07/07/2020

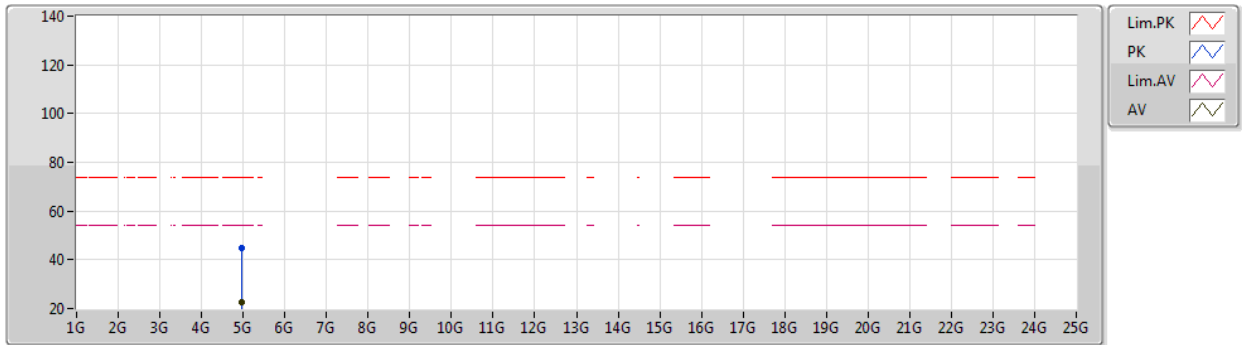


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	78.87	Inf	-Inf	33.46	3	Horizontal	95	2.62	-	45.41	27.40	6.06	-
AV	2.484G	35.60	54.00	-18.40	33.46	3	Horizontal	95	2.62	-	2.14	27.40	6.06	-
PK	2.48G	101.37	Inf	-Inf	33.46	3	Horizontal	95	2.62	-	67.91	27.40	6.06	-
PK	2.484G	58.10	74.00	-15.90	33.46	3	Horizontal	95	2.62	-	24.64	27.40	6.06	-

BT-EDR(3Mbps)

07/07/2020

2480MHz_TX

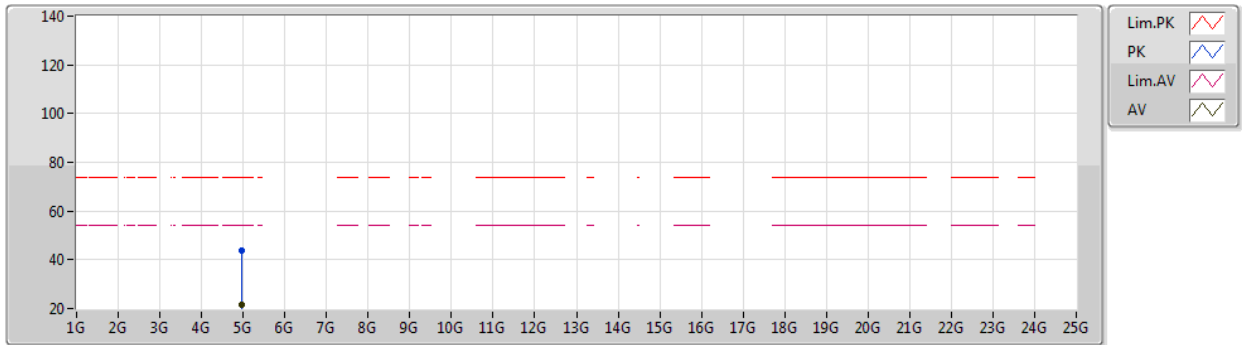


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95982G	22.41	54.00	-31.59	5.75	3	Vertical	271	2.91	-	16.66	31.22	8.35	33.82
PK	4.95982G	44.91	74.00	-29.09	5.75	3	Vertical	271	2.91	-	39.16	31.22	8.35	33.82

BT-EDR(3Mbps)

07/07/2020

2480MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95772G	21.44	54.00	-32.56	5.74	3	Horizontal	300	1.49	-	15.70	31.22	8.35	33.83
PK	4.95772G	43.94	74.00	-30.06	5.74	3	Horizontal	300	1.49	-	38.20	31.22	8.35	33.83